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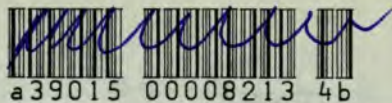
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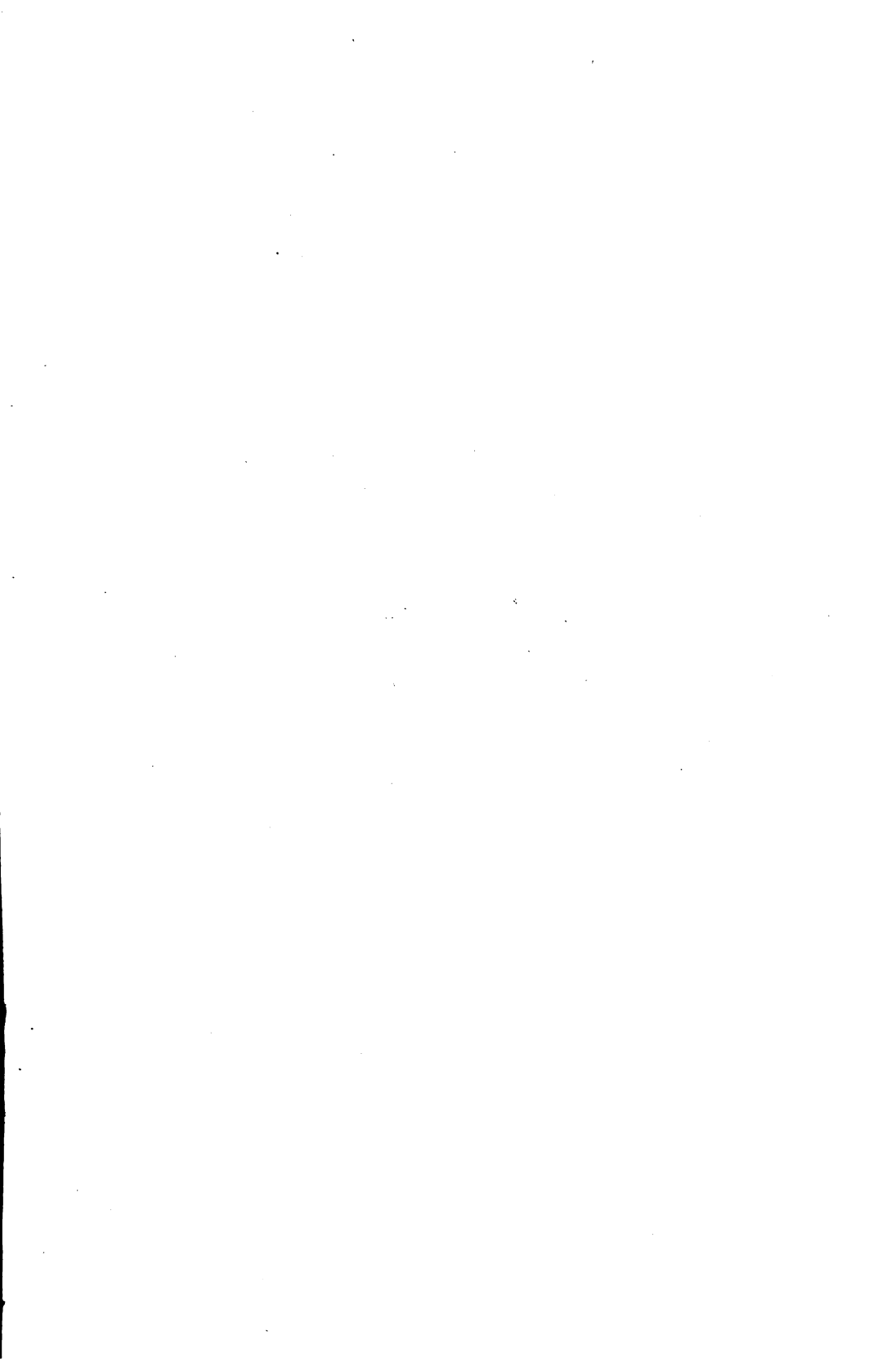
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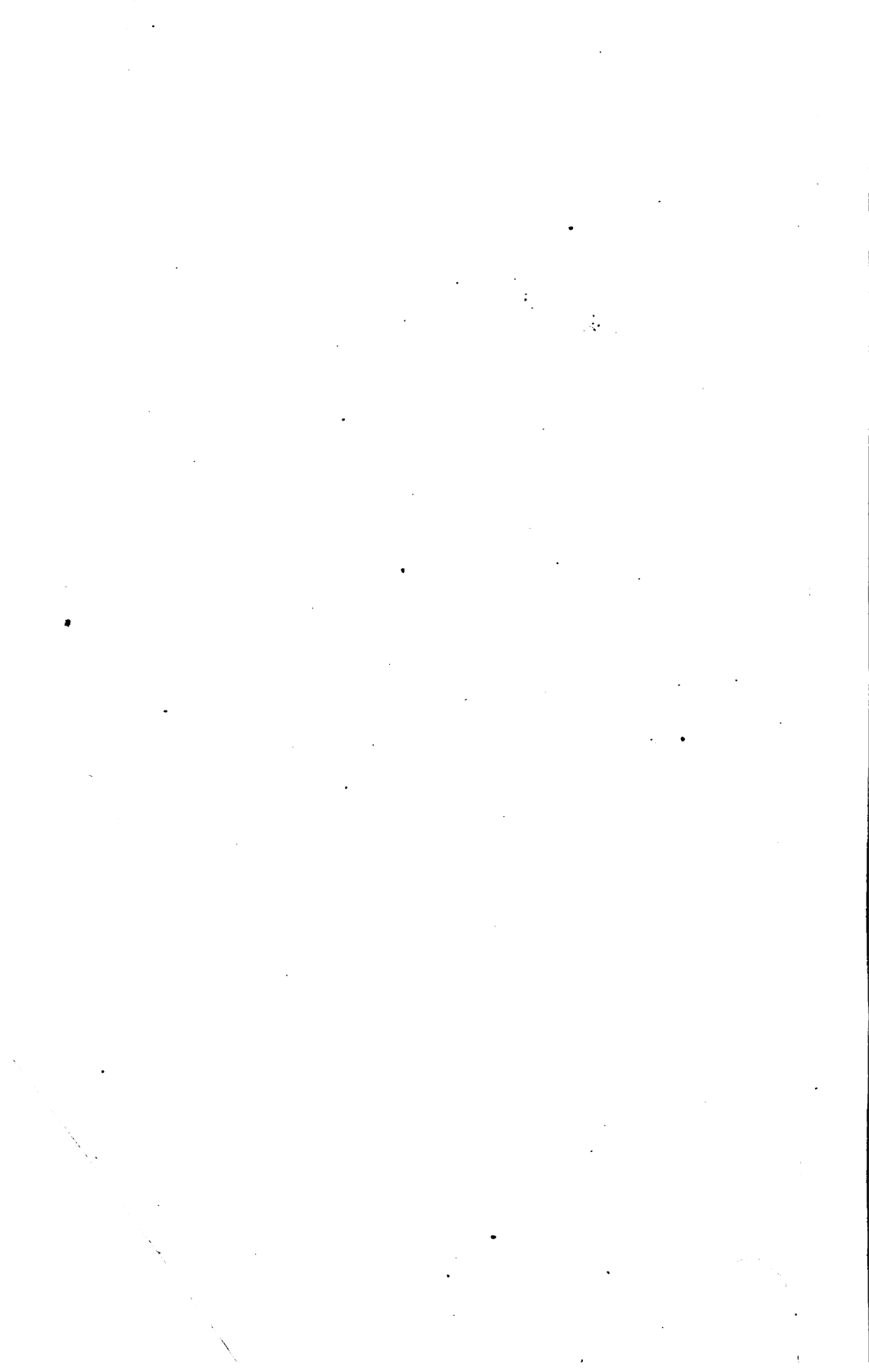
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PREFACE.

In introducing this Catalogue of American Mosses, the compilers believe that they are supplying a want which has long been felt by American Botanists. It is designed to be a convenient check and exchange list, and a basis for arrangement of genera, &c., in herbaria.

The classification is mainly that adopted by Prof. Schimper in his Synopsis of European Mosses.

All the authentic species and varieties reported, from Mexico to the Arctic regions, have been included and their habitats given with as wide a range as the examination of references and several good herbaria would permit.

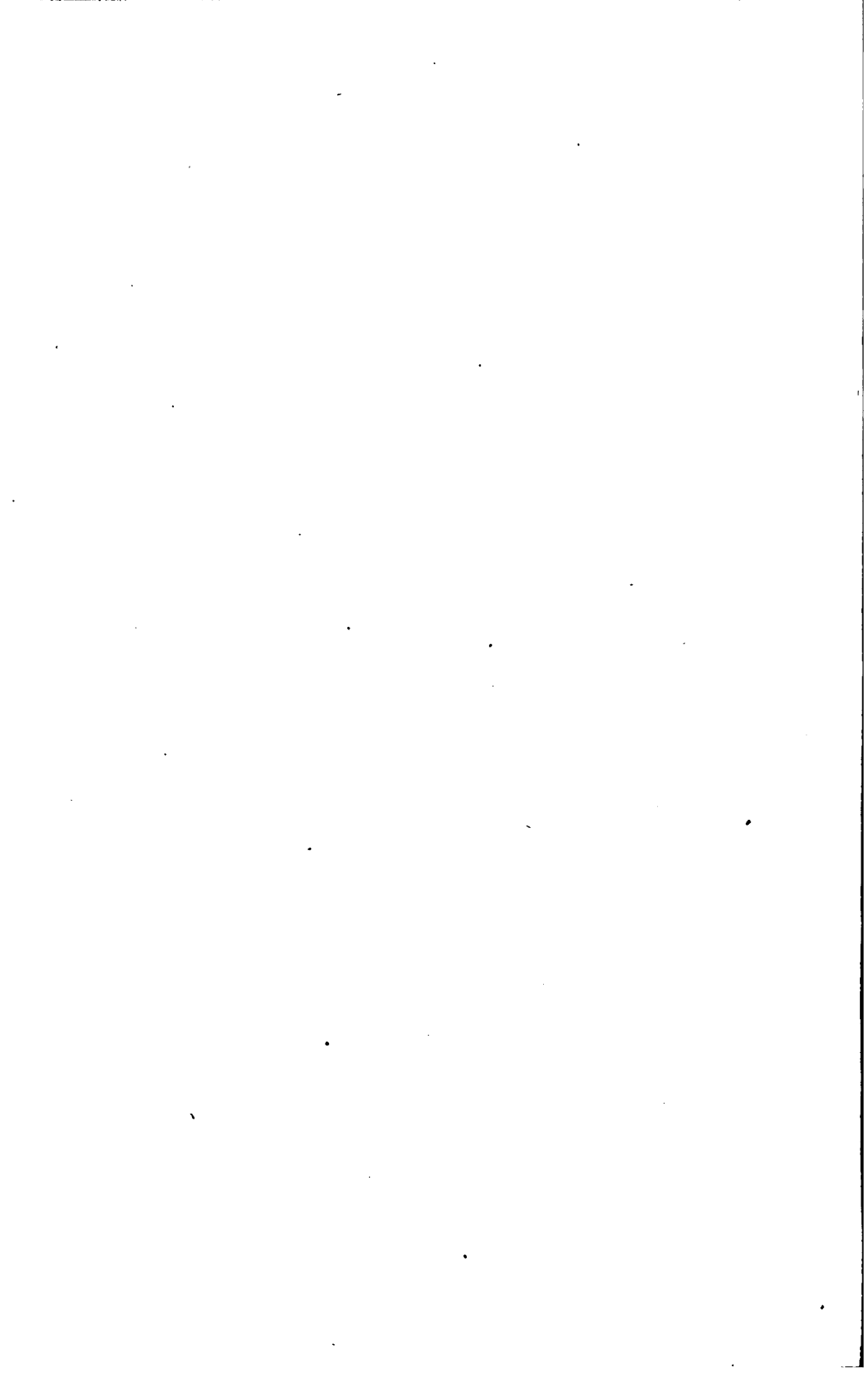
Some plants hitherto classified as species are given in this list as varieties. Doubtful species so far as known, when admitted have been marked with a star.

We have to acknowledge our indebtedness to Prof. C. H. Peck, the distinguished State Botanist of New York, for many valuable suggestions. The late Mr. C. F. Austin, whose recent death deprives American Bryologists of one of their most zealous, acute and accomplished co-laborers, kindly gave us much assistance in the work. To Mr. Chas. Mohr of Mobile, Alabama, we are indebted for lists of the Mosses from the Gulf States, Mexico and the Pacific Coast, represented in his herbarium.

The Index Generum will be found on page 50, Erata on page 52.

EUGENE A. RAU, Bethlehem, Pa.

A. B. HERVEY, Taunton, Mass.



MUSCI.

Series I. ACROCARPÆ.

Order I. CLEISTOCARPÆ.

Tribe I. PHYSCOMITRIOIDEÆ.

Family I. EPHEMERÆ.

1. EPHEMERUM, *Hpe.*

- | | |
|------------------------------------|-------------------------------------|
| 1. serratum <i>Hpe.</i> , | N. E., Mid. Sts., O., Br. Am., Cal. |
| 2. crassinervium <i>Hpe.</i> , | No. U. S. |
| 3. *hystrix <i>Lindbg.</i> , | N. J. to Fla. |
| 4. *papillosum <i>Aust.</i> , | N. J. to S. C. |
| 5. cohærens <i>Hpe.</i> , | O., Pa. |
| 6. *pallidum <i>Sch.</i> , | Ohio. |
| 7. spinulosum <i>B. & S.</i> , | Common. |

Family II. PHYSCOMITRELLEÆ.

2. NANOMITRIUM *Lindbg.*, (*Micromitrium* and *Sympoma* *Aust.*)

- | | |
|---|--------------|
| 8. tenerum (<i>Bruch.</i>) <i>Lindbg.</i> (<i>megalosporum</i> <i>Aust.</i>), | N. J., Pa. |
| 9. Austini (<i>Sull. Aust.</i>) <i>Lindbg.</i> , | N. Y., N. J. |
| 10. synoicum (<i>Jas. Aust.</i>) <i>Lindbg.</i> , | N. J., Pa. |

3. PHYSCOMITRELLA *Sch.*

- | | |
|-----------------------------|------|
| 11. patens <i>Br. Eu.</i> , | Ohio |
|-----------------------------|------|

Tribe II. POTTIOIDEA.

Family I. PHASCACEÆ.

4. SPHERANGIUM *Sch.*

- | | |
|----------------------------------|-------------------------------|
| 12. rufescens <i>Jaeger.</i> , | N. J. to S. C., O. |
| 13. muticum <i>C. M.</i> , | N. Y., N. J., Pa., Ill., Cal. |
| 14. Schimperianum <i>Sull.</i> , | Tex., Ill. |

5. PHASCUM *L.*

- | | |
|---------------------------------|----------------------------------|
| 15. cuspidatum <i>Schreb.</i> , | N. J. to S. C., Ill., Cal. |
| " var. piliferum, | N. J. to S. C., Ill., Cal., Col. |

16. bryoides *Dicks.*, var. piliferum, Cal. Col.
 17. Carniolicum *W. & M.*, Col.

Tribe III. BRUCHIACEÆ.

Family I. PLEURIDIÆ.

6. PLEURIDIUM *Brid.*

18. subulatum (*Schreb.*), *Lindbg.* (*P. alternifolium Brid.*), U. S.
 19. Ravenelii *Aust.* (*P. subulatum Sull. Mosses.*) N. J. to R. I., S. C.
 20. stramineum *Lx.*, Pacific Coast.
 21. Sullivanti *Aust.* (*P. nervosum Sull. Icon. non Hook.*), Pa. to S. C.

Family II. BRUCHIÆ.

7. SPORLEDERA *Hpe.*

22. palustris *Sch.* N. J., Mass., La.

8. BRUCHIA *Schw.*

A. Calyptra smooth.

23. Bolanderi *Lx.*, Cal.
 24. *Marylandica *Aust.*, Md.
 25. flexuosa *Schw.* (*Sull. Mosses.*), O. (?), Ill., So. Sts.
 26. Sullivanti *Aust.* (*B. flexuosa Sull. Icon. T. 13*, also *B. Beyrichiana Hpe., Sull., Icon., suppl. T. 15*), N. E. to Fla., Ill.
 var. brevicollis (*B. brevicollis L. & J.*), S. C.
 27. Donnellii *Aust.*, S. C., Fla., Ala.
 28. *nigrescens *Lx.*, Ala.
 29. Texana *Aust.*, Va. to Tex.
 30. Hallii *Aust.*, Va. to Tex.
 31. brevipes *Hook.*, S. C., Ala., La.
 32. brevifolia *Sull.*, Va., S. C., Ala., La., Tx.
 33. *microcarpa *Wils.*, La.
 B. Calyptra papillose.
 34. Carolinæ *Aust.*, S. C.
 35. Ravenelii *Wils.*, S. C. to Ala.
 36. *Schwægricheni *Hpe.*, La.

Order II. STEGOCARPÆ.

Tribe I. WEISIACEÆ.

Family I. WEISIEÆ.

9. SYSTEGIUM *Br. Eu.*

37. crispum *Hedw.*, Ind., Ill., Tex.
 38. Sullivantii *Sch.*, N. Y., Pa., O., Ill.
 39. nitidulum *Sch.*, N. J. to Ill. and Va.

40. *Ludovicianum* Sull., Fla., Ala., La.
 41. *erythrostegium* B. & S. (*S. Ludovicianum* Sull.) La.
10. *HYMENOSTOMUM* R. Br.
 42. *microstomum* R. Br., N. J., O., Tex.
11. *GYROWEISIA* Sch.
 43. *tenuis* Schrad., No. America.
12. *GYMNOSTOMUM* Br. Eu.
 44. *calcareum* N. & H., N. Y., O.(?), Br. Am.
 " *var. perpusillum* Sull., Cal.
 45. *rupestre* Schwg., No. U. S., Br. Am., Col.
 46. *curvirostrum* Hedw., No. U. S., Pacif., Br. Am.
 47. *tophaceum* Aust., Tex.
 48. **Clintoni* Aust., N. Y.
 49. *Orizabanum* Sch., Mex.
 50. *incurvans* Sch., Mex.
13. *ANCECTANGIUM* Schwg.
 51. *Peckii* Sull., Catskill Mts.
 52. *Liebmanii* Sch., Mex.
 53. *apiculatum* Sch., Mex.
 54. *Breutilianum* B. & S., Mex. and No. W. Coast.
 55. *Hornschuchianum* Funk., No. W. Coast.
 56. *glauescens* Sch., Mex.
 57. *condensatum* Sch., Mex.
14. *WEISIA* Hedw.,
 58. *viridula* Brid., U. S., Br. Am.
 " *var. Rauei* Aust., Pa., Col.
 " " *Brandegei* Aust., Col.
 " " *Wolfii* L. & J., Ill.
 " " *australis* Aust. (*W. longiseti* L. & J.), Fla. to Tex.
 59. *mucronata* Bruch., Ill.
 60. *barbulacea* C. M., Mex.
15. *DICRANOWEISIA* Lindb. (*Weisia* Hedw.),
 61. *crispula* Hedw., Pac. Coast, Br. Am., G'land.
 62. *cirrha* Hedw., " " "
16. *OREOWEISIA* Sch. (*Weisia* Hedw.),
 63. *serrulata* Funk., Mid. Sts., Col.
17. *RHABDOWEISIA* Sch.
 64. *fugax* B. & S., N. Y., N. J., Wht. Mts., Br. Am.
 65. *denticulata* B. & S., N. E. and Mid. Sts., N. C.
 66. *vulcanica* C. M., Mex.

Family II. DICRANEÆ.

18. *CYNODONTIUM* Sch.
 67. *schisti* (Oed.) Rky. Mts., G'land.
 68. *gracilescens* W. & M., Rky., Wht. and Adirod'k Mts.
 " var. *tenellum*, Wht. Mts.
 69. *polycarpum* Erh., N. Y., N. W. Br. Am., Gt. Lakes.
 70. *virens* Hedw., N. Y., Pa., Col., Br. Columb., G'land.
 " var. *Wahlenbergii*, Br. Am.
 " " *serratum*, Col., Pac. Coast.
19. *DICHODONTIUM* Sch., (*Dicranum*.)
 71. *pellucidum* (L.) N. Y., N. J., Br. Am., Col.
 " var. *fagimontanum*, Vt., Col.
 " " *serratum*, Col., Vanc'r I.
20. *TREMATODON* Michx.
 72. *longicollis* Rich., N. J. to Fla., O., Ill., Ala., La., Mex.
 73. *uncinatus* C. M., Mx.
 74. *ambiguus* Hedw., Md. to Canada, O.
 75. *nitidulus* Sch., Mex.
21. *MICRODUS* Sch.,
 76. *Liebmanni* Sch., Mex.
 77. *ovatus* Besch., Mex.
 78. *Sartorii* Sch., Mex.
 79. *longirostris* Sch., Mex.
22. *ANGSTROMIA* B. & S.
 80. *vulcanica* C. M., Mex.
 81. *longipes* Sommf., No. Am.
23. *DICRANELLA* Sch.
 A. Squarrosa.
 82. *crispa* Hedw., Br. Am., Pac. Coast.
 83. *Schreberi* (Hedw.), Mid. Sts., Br. Am.
 " var. *occidentalis* Aust., Or., Vanc'r I.
 84. *cerviculata* (Hedw.), N. J., Wht. Mts., N. Bruns'k.
 85. **Canadensis*, Mitt., Br. Am.
 86. *Mulleri* Sch., Mex.
 87. *compacta* Sch., Mex.
 B. Secunda.
 Ohio.
 88. *varia* (Hedw.), U. S., Br. Am.
 89. *rufescens* Turn., Mid. Sts., Nor'd and West'd.
 90. *subulata* (Hedw.), Wht. Mts., Pac. Coast, Br. Am.
 91. *heteromalla* Hedw., No. and East. U. S., Pac. Coast.
 " var. *orthocarpa* C. M., Mid. Sts.
 " " *orthophylla* Aust., Ohio.
 92. *exigua* Schury. (*D. debile* W.), Gulf Sts., S. C.

93. *Liebmanniana* C. M., Mex.
 94. *brachyblepharis* C. M., Mex.
 95. *pilopogon* C. M., Mex.
 96. *trematodontifolia* C. M., Mex.
 97. *microdonta* Sch., Mex.
 98. *Sartorii* C. M., Mex.

24. *DICRANUM* Hedw.

- A. Fulvella.*
 99. *fulvellum* Dicks. (*Arctoa*), N. Y., Wh. Mts., G'land.
B. Falcata.
 100. *Starkii* W. & M. (*D. Blyttii* W. & M.), Wht. and Adirond'k }
 Mts., Br. Am., G'land. }
C. cæspitans Sch., Mex.
C. Orthocarpa.
 102. *montanum* Hedw., Mid. Sts. and West'd, Br. Am.
 103. *viride* S. & L. (*strictum* S. & L.), N. & E. U. S., Br. Am., P. Cst.
 104. *flagellare* Hedw., Mid. Sts., Br. Am., Mex.
 105. *albicans* B. & S. (*D. enerve* Hedw.), Pacific Coast.
 106. *fulvum* Hook. (*D. interruptum* Br. Eu.), No. & E. U. S., Br. Am.
 107. *longifolium* Hedw., Mid. Sts., Br. Am.
D. Scoparia.
 108. *elongatum* Sch. (*D. Macouni* Aust.), N. E. to Rky. Mts. and }
 G'land. }
 109. *fuscescens* Turn. (*D. congestum* Brid.), Mts. of Pa., N. E., }
 N. Y. to Rky. Mts., Br. Am., G'land. }
 110. *Muhlenbeckii* B. & S., N. J., Br. Am., Col., G'land.
 111. *fragilifolium* Lind., Br. Am.
 112. *scoparium* L., U. S., Br. Am.
 var. orthophyllum, Appalachian, G'land.
 " *curvulum*, "
 " *paludosum*, "
 " *recurvatum*, "
 " *rupestre*, "
 " *orthocarpum*, "
 113. *majus* Turn., Pacific Coast.
 114. *arcticum* Sch., G'land, Labrador.
 115. *scoparioides* Sch., Mex.
 116. *Mexicanum* Sch., Mex.
E. Undulata.
 117. *palustre* L. Pl., East., Mid. & No. Sts., Br. Am., Pacific.
 var. (D. Brewerianum Lr.), Pacific.
 118. *Schraderi* Schæg., Mid. Sts. to Cal., Br. Am.
 119. *spurium* Hedw., Mid. Sts., Cal., Br. Am.
 var. (D. condensatum Hedw.), Mid. Sts. to Fla., Gulf Sts., }
 Br. Am. }
 120. *undulatum* Voigt., E. and Mid. Sts., No'd and West'd.

121. *elatum* Lindbg. (*D. Drummondii* C. M., *D. robustum* Blytt.), {
N. E. and Mid Sts., Br. Am. }
122. *rhabdocarpum* Sull., Rky. Mts., U. S., Mex.
123. *Andrieuxii* Besch., Mex.
124. *lophoneuron* C. M., Mex.
125. *Richardsoni* Hook., G'land.
126. *cryptocarpum* C. M., Mex.
25. *ATRACHYLOCARPUS* Mitt.
127. *Mexicanus* Mitt., Mex.
26. *DICRANODONTIUM* B. & S.
128. *longirostre* B. & S., Pa. O.
129. *nitidum* Jas. (*D. longifolium* Hedw. fide Aust.), Wht. Mts.
27. *CAMPYLOPUS* Brid.
Folia epilifera.
130. *flexuosus* Brid. (*C. Tallulensis* S. & L.), Ga., N. C.
131. *Leanus* Sull., Mid. Sts. and Westward.
132. *pusillus* Sch., Mex.
133. *Vitzliputzli* Ltz., Mex.
134. *leucogaster* C. M., Mex.
135. *subleucogaster* C. M., Ala.
136. *bicolor* Sch., Mex.
137. *flagellaceus* C. M., "
138. *Chrismani* C. M., "
139. *Hallerianus* Hpe., "
140. *Rauei* Aust., Colorado.
141. *Hallii* Lr., "
142. *frigidus* Lr., "
143. *Donnellii* Aust., Ala., Fla.
144. *gracilicaulis* Mitt., Fla., Mex.
145. *angustiretis* Aust., Fla.
146. *Virginicus* Aust., Va.
Folia pilifera.
147. *lævigatus* Sch., Mex.
148. *lamellicosta* Sch., Mex.
149. *Liebmanni* Sch., Mex.
150. *Richardi* Schuy. (*C. nigrescens* Duby.), Mex.
151. *strictus* Sch., Mex.
152. *pilosissimus* Sch., Mex.
153. *luridus* Sch., Mex.
154. *introflexus* Hedw. (*C. polytrichoides* D. N., *C. leucotrichus* S. & {
L., *lutescens* Sch.), Ala. }
28. *CAMPYLOCHETIUM* Besch.
155. *Mexicanum* Besch., Mex.
156. *Selowii* Hornsch. (*Angstroemia Hallerianum* C. M.), "

29. *PILOPOGON* *Brid.*
 157. *calycinus* *Sch.*, Mex.
 158. *Mohrii* *C. M.*, Mex.
30. *HOLOMITRIUM* *Brid.*
 159. *serratum* *C. M.*, Mex.

Tribe II. LEUCOBRYACEÆ.

Family I. LEUCOBRYEÆ.

- * 31. *LEUCOBRYUM* *Hpe.*
 160. *glaucum* *Hpe.*, U. S., Br. Am.
 var. minus (*Hpe.*), So. U. S., Mex.
32. *OCTOBLEPHARUM* *Hedw.*
 161. *albidum* *Hedw.*, Gulf Sts., Mex.

Tribe III. FISSIDENTACEÆ.

Family I. FISSIDENTEÆ.

- * 33. *FISSIDENS* *Hedw.*
 A. Fruit terminal.
162. *hyalinus* *H. & W.*, Ohio.
 163. *obtusifolius* *Wils.*, Ohio, Col.
 164. *incurvus* *Schw.* (*F. limbatus* *Sull.*), Gulf Sts., Cal.
 var. exiguus (*Sull.*), Mid. Sts.
 " *synoicus* (*Sull.*), Mid. Sts.
 " *monoicus* *Aust.*, N. J.
 " *minutulus* *Sull.*, U. S., Br. Am.
 " *longipes* *Aust.*, Vancouver's I.
165. *Floridanus* *L. & J.*, Fla.
 166. *bryoides* *Hedw.*, E. W. Mid. Sts., Col.
 167. *Ravenelii* *Sull.*, Car. to Fla., Ala.
 168. *osmundioides* *Hedw.*, E. Mid. W. Sts., and Br. Am.
 169. *Garberi* *Jas.*, Fla.
 170. *Donnellii* *Aust.*, Fla.
 171. *Texanus* *Aust.* (*F. Hallii* *Aust.*), Tex.
 172. *tortilis* *Hpe.*, Mex.
 var. scalpellatus *C. M.*, Mex.
 173. *circinans* *Sch.*, Mex.
 174. *ventricosus* *Lx.*, Cal.
 175. *Closteri* *Aust.*, N. J.
 176. *subcrenatus* *Sch.*, Mex.

* "*Leucobryum vulgare*, *Hamp.* - *It species in herb.*

B. Fruit axillary.

177. *subbasilaris Hedw.*, No. and Mid. Sts., Ohio, Ala.
 178. *taxifolius Hedw.*, Mid. Sts., Ohio, Ala.
 179. *adiantoides Hedw.*, No. and E. U. S., Pac. Coast, Br. Am.
 var. rupestris (F. rupestris Wils.), Mid. Sts.
 180. *polypodioides Hedw.*, Mex., La., Fla., Ga.,
 181. *grandifrons Brid.*, N. Y., No. W. to Rky. Mts., Br. Am., Pac.
 var. strictus Besch., Mex.
 182. *decipiens D. N.*, Fla., Ohio, Ill., Ontario.
 C. Sterile.
 183. *Bourgeanus Besch.*, Mex.
34. *CONOMITRIUM Mont.*
 184. *Julianum Mont.*, N. E., Mid. and W. Sts., Fla., Ala.
 var. Mexicanum Sch., Mex.
 185. *Hallianum S. & L.*, N. J., Ill., Fla.
 186. *reticulosum C. M.*, Mex.

Tribe IV. SELIGERIACÆ.

Family I. SELIGEREÆ.

35. *ANODUS B. & S.*
 187. *Donianus B. & S.*, N. Y., and Br. Am.
36. *SELIGERIA B. & S.*
 188. *tristichia B. & S.*, Ohio.
 189. *recurvata B. & S.*, N. Y., N. J., Pa., Br. Am.
 190. *globifera Hpe.*, Mex.
 191. *pusilla B. & S.*, Mo., Br. Am.
 192. *calcareæ (Dicks.)*, Ohio.
37. *BLINDIA B. & S.*
 193. *acuta Br. Eu.*, Catskill Mts. and No. to G'land.
38. *CAMPYLOSTELIUM B. & S.*
 194. *saxicola W. & M.*, N. E. Sts., N. J., Ky.

Tribe V. CERATODONTACEÆ.

Family I. CERATODONTEÆ.

39. *CERATODON Brid.*
 195. *purpureus Brid.*, No. U. S., to Pac. Coast, Br. Am.
 var. aristatus, N. J., Pa.
 " *xanthopus*, Rky. Mts., Cal,
 British Columbia.
 196. **minor Aust.*, Mex.
 197. *stenocarpus B. & S.*, Mex.
 198. *perichættialis Sch.*, Mex.

40. *TRICHODON* Sch.
 199. *cylindricus Aust.*, Vanc'r I.
 200. *nodulosus Aust.*, N. Y., N. J.

Family II. LEPTOTRICHEÆ.

41. *LEPTOTRICHUM* Hpe. (*Trichostomum* B. & S.)
 201. *tortile Schrad.*, N. E., No. and W. Sts., Ala., Br. Am.
 " *var. pusillum*, N. Y., Pa.
 202. *tenue Swartz (T. vaginans Sull.)*, N. E. Sts. to Mo., Br. Am.
 203. *flexicaule (Schwg.)*, Pac. Coast., Br. Am.
 " *var. erosum Aust.*, Br. Am.
 204. *pallidum (Schreb.)*, Atl., Gulf and West. Sts., Br. Am.
 205. *glaucescens (Hedw.)*, Mid. and E. Sts., Br. Am., Col.
 206. *Schimperi Lx.*, Pac. Coast.
 207. *heteromallum Lindbj., (L. Sullivanti Aust.)* Wht. Mts.
 208. *leptocarpum Sch.*, Mex.
 209. *Mexicanum Sch.*, Mex.
 210. *Mittenii Besch.*, Mex.
 42. *SYMBLEPHARIS* Mont.
 211. *helicophylla Mont.*, Mex.
 212. *Chrimari C. M.*, Mex.

Family III. DISTICHEÆ.

43. *DISTICHUM* B. & S.
 213. *capillaceum B. & S.*, No. E. U. S., Br. Am., Pac., Rky. Mts.
 214. *inclinatum B. & S.*, Ohio., No. and West., Col.

Tribe VI. EUSTICHIACEÆ.

Family I. EUSTICHLÆ.

44. *EUSTICHIMUM* Brid.
 215. *Norvegicum Br. Eu.*, O., Pa., Ky., Mex.

Tribe VII. POTTIACEÆ.

Family I. POTTIÆ.

45. *PHAROMITRIUM* Sch.
 216. *subsessile Sch.*, Br. Am., Col.
 217. *exiguum Aust.*, Tex., Ill.
 46. *POTTIA* Ehr.
 A. Capsule gymnostomous or nearly so.
 218. *cavifolia (Dicks.)*, Pac. Coast., Col.
 219. *minutula (Schwg.)*, Texas.

220. *truncata* (L.), N. E. and Mid. Sts.
var. *subeylindrica*, Br. Am.
221. *Heimii* Hedw., Br. Am., Col., Pac. Coast.
222. *subsessilis* B. & S., Pac. Coast.
223. *riparia* Aust. (*Didymodon* ?), Mid. Sts.
224. *Mexicana* Hpe., Mex.
225. *exiguum* Aust., Tex., Ill.
B. *Capsule bearing a distinct peristome.*
226. *Starkeana* (Hedw.), Pac. Coast.
227. *latifolia* (Schw.), Br. Am., Rky. Mts., Cal.
47. *DIDYMON* Hedw.
228. *rubellus* (Roth.), U. S., Br. Am.
229. *luridus* Horn., Niag. Falls.
230. *cylindricus* (Bruch.), Mid. Sts.
231. *Mexicanus* Besch., Mex.
232. *æneus* Sch., Mex.
233. **diversifolius* Aust. (*Trichostomum tophaceum* Brid. var. ?), N. Y.

Family II. TRICHOSTOMEÆ.

48. *TRICHOSTOMUM* Sm.
234. *tophaceum* Brid., Pac. Coast, Col., N. Y., O.
235. *rigidulum* Sm., Br. Am., Pac. Coast.
236. *crassinervium* Hpe., Pac. Coast.
237. *anomalum* Sch., Br. Am., Pac. Coast.
238. *flexipes* B. & S., Pac. Coast.
239. *corniculatum* Wahl., Pac. Coast.
240. *dieranelloides* Sch., Mex.
241. *campylocarpum* C. M., Mex.
242. *obtusifolium* Hpe., Mex.
243. *crispulum* Br., Mex.
244. *subanomalum* Besch., Mex.
245. *Bescherellii* Sch., Mex.
246. *ramulosum* Sch., Mex.
247. *rubiginosum* Mitt., Br. Am.
248. *nlocalyx* C. M., Mex.
249. *stellatum* C. M., Mex.
250. *luteolum* Besch., Mex.
251. *luridum* Horn., About the Gt. Lakes.
252. *macrostegium* Sull., Ala., La.
253. **scitulum* Aust. (*Leptotrichum* ?), N. J.
254. *subdenticulatum* Aust., Fla.
255. **Coloradense* Aust., Cal.
256. *chlorophyllosum* C. M., Mex.
257. *flavo-virens* Bruch. (*Barbula tortifolia* Jas.), Fla.

49. CALYMPERES *Sac.*

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| 258. | <i>disciforme C. M.,</i> | Fla., Mex. |
| 259. | <i>Richardi C. M.,</i> | Fla., Mex. |
| 260. | <i>Donnellii Aust.,</i> | Fla. |
| 261. | <i>*filigerum Aust.,</i> | Fla. |

50. SYRRHOPODON *Schw.*

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|------|-----------------------------|------------------|
| 262. | <i>crispus Aust.,</i> | Fla. |
| 263. | <i>parvulus Sch.,</i> | Mex. |
| 264. | <i>Texanus Sull.,</i> | Gulf Sts., N. C. |
| 265. | <i>albovaginatus Schw.,</i> | Mex. |
| 266. | <i>Hobsoni H. & G.,</i> | Mex. |
| 267. | <i>Floridanus Sull.,</i> | Fla., La. |
| 268. | <i>circinatus Sch.,</i> | Mex. |
| 269. | <i>*Rauei Aust.,</i> | Pa. |
| 270. | <i>Mohrii C. M.,</i> | Mex. |
| 271. | <i>Sartorii C. M.,</i> | Mex. |

51. DESMATODON *Brid.*

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| 272. | <i>latifolius Hedw.,</i> | Pac. Coast, Col., Br. Am., G'land. |
| | " <i>var. glacialis,</i> | Col. |
| 273. | <i>sistylus B. & S.,</i> | Col., Pac. Coast. |
| 274. | <i>cernuus (Wahl.),</i> | Col., Br. Am. |
| 275. | <i>obliquus B. & S.,</i> | Rky. Mts. |
| 276. | <i>Laureri (Schulz),</i> | Col. |
| 277. | <i>arenaceus S. & L.,</i> | Ohio. |
| 278. | <i>flavicans Funk. (Barbula obtusifolia Schw.),</i> | Col., Br. Am. |
| 279. | <i>Porteri Jas.,</i> | Pa., Niag. Falls, O., Ill. |
| 280. | <i>Californicus Lx.,</i> | Cal. |
| 281. | <i>Sartorii C. M.,</i> | Mex. |
| 282. | <i>plinthobius S. & L.,</i> | Pa., O., So. Sts. |

52. BARBULA *Hedw.**A. Aloidella.*

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| 283. | <i>brevirostris B. & S.,</i> | Br. Am. |
| 284. | <i>rigida Schulz,</i> | Ill., Col., Br. Am. |

B. Barbula.

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| 285. | <i>membranifolia Schulz,</i> | Cal. |
| 286. | <i>chloronotus Schulz,</i> | Cal. |
| 287. | <i>atrovirens Sm., var. edentula,</i> | Col., Cal. |
| 288. | <i>Guepini B. & S.,</i> | Cal. |
| 289. | <i>cuneifolia Dick.,</i> | Cal. |
| 290. | <i>Vahlana Schulz,</i> | Cal. |
| 291. | <i>marginata B. & S.,</i> | Cal. |
| 292. | <i>muralis Timm.,</i> | N. J., Pa., So. Sts., Col. |

C. Tortula.

293. *ungiculata* Dill., No. and East. U. S., Ala.
 294. *fallax* Hedw., No. and East. U. S., Br. Am., Rky. Mts.
 295. *recurvifolia* Sch., N. Y., N. J., and West to Col.
 296. *vinealis* Br. Eu., O., Br. Am., Pac. Coast, Mex.
 " *var. placida*, Cal.
 297. *gracilis* Schwg., Br. Am.
 298. *convoluta* Hedw., var. *Americana* Aust., Mid. Sts., O., Br. Am., {
 Pac. }
 299. *cæspitosa* Schwg., Atl. Sts. and West'd, Gulf Sts., Mex.
 300. *tortuosa* W. & M., Mid. Sts., Br. Am., Rky. Mts.
 301. *fragilis* Wils., N. J. to Canada, Rky. Mts.
 302. *Donnellii* Aust., Fla.
 303. *agraria* Swartz, Fla.
 304. *Rauei* Aust., Tex.
 305. *gracilescens* Sch., Mex.
 306. *graciliformis* Sch., Mex.
 307. *leptocarpa* Besch., Mex.
 308. *Bourgeana* Besch., Mex.
 309. *erythropoda* Sch., Mex.
 310. *rufipes* Sch., Mex.
 311. *olivacea* Besch., Mex.
 312. *teretiuscula* Sch., Mex.
 313. *ferruginea* Sch., Mex.
 314. *graminicolor* C. M., Mex.
 315. *Orizabana* C. M., Mex.
 316. *flaccidiseta* Ltz., Mex.
 317. *spiralis* Sch., Mex.
 " *var. humilis* C. M., Mex.
 318. *trichostomoides* Besch., Mex.
 319. *Jooriana* C. M. (*B. Ravenelii* Aust.), Ga., La.
 320. *Indica* Hook. (*B. Cruegeri* Sond., *B. Closteri* Aust.), La., N. J., Fla.
 321. *subfallax* Mull., Pac. Coast.
 322. *semitorta* Sull., Pac. Coast.
 323. *insulana* D. N., Pac. Coast.
 324. *flexifolia* Hpe., Pac. Coast.
 325. *arctocarpa* Lx., Pac. Coast.
 326. *virescens* Lx., Pac. Coast.
 327. *brachyphylla* Sull., Pac. Coast.
 328. *Bolanderi* Lx., Pac. Coast.
 329. *amplexa* Lx., Pac. Coast.
D. Syntrichia.
 330. *subulata* Brid. N. E. Sts., N. Y., Ill., Cal., Br. Am.
 " *var. subinermis*, Cal.
 " " *mucronifolia* (*B. mucronifolia* Schwg.), N Y., O., {
 Br. Am., Col. }

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| 331. | <i>inermis</i> Mont., | Col., Pac. Coast. |
| 332. | <i>lævipila</i> Br. Eu., | Pac. Coast, Br. Am. |
| 333. | <i>latifolia</i> Br. Eu., | Pac. Coast. |
| 334. | <i>ruralis</i> Hedw., | Br. Am., Col., Tex. |
| | “ var. <i>gigantea</i> , | Pac. Coast. |
| 335. | <i>papillosa</i> Wils., | N. E. to Fla. |
| 336. | <i>Mulleri</i> Bruch., | Pac. Coast, Br. Am. |
| 337. | <i>intermedia</i> Brid., | Pac. Coast, N. J. |
| 338. | <i>glacialis</i> Ktz., | Mex. |
| 339. | <i>amphidaea</i> C. M., | Mex. |
| 340. | <i>brevipes</i> Lx., | Pac. Coast. |
| 341. | <i>Ehrenbergiana</i> C. M., | Mex. |
| 342. | <i>obtusissima</i> C. M., | Mex. |

Tribe VIII. GRIMMIACEÆ.

Family I. GRIMMIEÆ.

53. *SCOULERIA* Hook.
 343. *aquatica* C. M., Pac. Coast.
- * 54. *GRIMMIA* Ehr.
A. Schistidium.
 344. *sphærica* Hedw., Br. Am.
 345. *conferta* Funk, N. E. and Mid. Sts., Br. Am., Col., Pac. Coast.
 “ var. *obtusifolia*, N. E.
 “ “ *longipila*, Mid. Sts.
 346. *apocarpa* L., N. E. to Miss. Riv. and So. Col., Pac.
 “ var. *gracilis*, N. J.
 “ “ *rivularis*, Mid. Sts., Pac. Coast.
 347. *maritima* Turn., Me., R. I., Newfound'd.
 348. *Agassizii* S. & L., L. Superior and N. Brunsw'k.
 349. *Coloradensis* Aust., Col.
 350. *ambigua* Sull., N. Mex.
 351. *fuliginosa* Sch., Mex.
 352. *Schiedeana* C. M., Mex.
 353. *platyphylla* Mitt., Col., Davis Straits.
B. Gasterogrimmia.
 354. *Jamesii* Aust., Rky. Mts.
 355. *anodon* B. & L., Wht. Mts., Br. Am., Col.
 356. *brachyodon* Aust., Cal.
 357. *plagiopoda* Hedw., Rky. Mts.
 358. *Brandegei* Aust., Col.
C. Grimmia.
 359. *pulvinata* Dill., Pac. Coast.
 360. *contorta* Wahl., Pac. Coast.
 361. *torquata* Grev., Br. Am.

“ *G. heterostichia*, Eu. Spec. in herb.
 * *Grimmia Schultzei* Mils., Eu. Spec. in herb.

362. *Muhlenbeckii* Sch., Pac. Coast.
 363. *trichophylla* Grev., Col., Br. Am., Pac. Coast.
 364. *imberbis* Ktze., Mex.
 365. *fuscolutea* Hook., Mex.
 366. *Pennsylvanica* Schw., Atlantic Sts., Mex.
 367. *Olneyi* Sull., Mid. Sts., Br. Am.
 368. *Californica* Sull., Pac. Coast.
 369. *hamulosa* Lx., Pac. Coast.
D. Gumbelia.
 370. *Donniana* Sm (*G. obtusa* Schwg.), Wht. Mts., Br. Am.
 371. *ovata* W. & M., N. Y., Col., Br. Am., Mex.
 " *var. affinis*, Rky. Mts., Col.
 372. *leucophæa* Grev., N. J., N. Y., O., Ga., Pac. Coast, Br. Am.
 373. *montana* B. & S., Canada, Col.
 374. *alpestris* Schl., Br. Am., Cal.
 375. *elongata* Kauf., Wht. Mts.
 376. *unicolor* Grev., N. Y., Mid. Sts., Br. Am.
 377. *laxa* C. M., Mex.
 378. *calyptrata* Hook., New Mex., Col., Br. Am.
Incertæ sedis.
 379. **subincurva* Aust., Col.
55. *RACOMITRIUM* Brid.
 380. *Sudeticum* Brid., Mid. Sts., Br. Am.
 381. *heterostichum* Hedw., Pac. Coast, Col., Br. Am.
 382. *fasciculare* Schrad., Alleg. Mts. and North, Br. Am.
 383. *microcarpum* Hedw., Mid. Sts.
 384. *langinosum* Hedw., N. E. to Or., Vanc'r I., G'land.
 385. *canescens* Hedw., N. E. to Vanc'r I.
 386. **varium* Mitt., Br. Columb.
 387. **Nevii* C. M., Oregon.
 388. *cylindricum* Sch., Mex.
 389. *patens* Dicks., Pac. Coast.
 390. *depressum* Lx., Pac. Coast.

Family II. HEDWIGIÆ.

56. *HEDWIGIA* Ehr.
 391. *ciliata* Ehr., Atl. Sts., Col., Pac. Coast.
 " *var. leucophæa*, Col., Br. Am.
 " *var. falcata*, Oregon.
 392. *subrevoluta* C. M., Mex.
57. *HEDWIGIDIUM* B. & S.
 393. *squarrulosum* B. & S., Mex.

58. BRAUNIA B. & S.

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| 394. <i>Californica</i> Lx. (<i>H. pilifera</i> Mitt.), | Pac. Coast, Br. Am. |
| 395. <i>secunda</i> B. & S., | Mex. |
| 396. <i>Andreuxii</i> Ltz., | Mex. |
| 397. <i>Liebmanniana</i> Sch., | Mex. |

Family III. PTYCHOMITRIÆ.

59. COSCINODON Spreng.

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| 398. <i>Wrightii</i> Sull., | Tex., Na., N. Mex., Col. |
| 399. <i>Rauei</i> Aust., | Col. |

60. PTYCHOMITRIUM B. & S.

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| 400. <i>incurvum</i> Schwg. (<i>P. pygmæum</i> L. & J.), | N. Y. to Ga., O., Kan., Mo. |
| 401. <i>Drummondii</i> H & W., | So. Ill. to S. C. and the Gulf. |
| 402. <i>lepidomitrium</i> Sch., | Mex. |
| 403. <i>Reichenbachianum</i> Ltz., | Mex. |
| 404. <i>serratum</i> Sch., | Mex. |
| 405. <i>Gardneri</i> Lx., | Cal. |

61. GLYPHOMITRIUM Brid.

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| 406. <i>Canadense</i> Mitt., | Br. Am. |
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Family IV. ZYGODONTÆ.

62. AMPHORIDIUM Sch.

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| 407. <i>Lapponicum</i> Hedw., | Mid. Sts., Br. Am., Col., Pac. Coast. |
| 408. <i>Mougeotii</i> B. & S., | Mid. Sts., Col. |
| 409. <i>cæspitosum</i> Mitt., | Vanc'r I. |

63. ZYGODON H. & T.

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| 410. <i>Californicus</i> Hpe., | Pac. Coast. |
| 411. <i>Sullivantii</i> C. M., | N. C. |
| 412. <i>affinis</i> Sch., | Mex. |
| 413. <i>cylindricus</i> Sch., | Mex. |
| 414. <i>Liebmanni</i> Sch., | Mex. |
| 415. <i>spathulæfolius</i> Besch., | Mex. |
| 416. <i>angustatus</i> Sch., | Mex. |
| 417. <i>Ehrenbergii</i> C. M., | Mex. |
| 418. <i>circinatus</i> Sch., | Mex. |
| 419. <i>campylophyllus</i> C. M., | Mex. |

64. DRUMMONDIA Hook.,

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| 420. <i>clavellata</i> Hook., | Can. to Ga. |
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65. *MACROMITRIUM* Brid.

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| 421. | <i>Lieboldtii</i> Hpe., | Mex. |
| 422. | <i>Mexicanum</i> Mitt., | Mex. |
| 423. | <i>Ghiesbrechtii</i> Besch., | Mex. |
| | “ var. <i>brevifolium</i> , | Mex. |
| 424. | <i>rhabdocarpum</i> Mitt., | Fla., Mex. |
| 425. | <i>Sumichrasti</i> Duby., | Mex. |
| 426. | <i>flexuosum</i> Sch., | Mex. |
| 427. | <i>pentastichum</i> C. M., | Mex. |
| 428. | <i>tomentosum</i> C. M., | Mex. |
| 429. | <i>tortuosum</i> Sch., | Mex. |
| 430. | <i>Mulleri</i> Sch., | Mex. |
| 431. | <i>leptophyllum</i> Besch., | Mex. |
| 432. | <i>Dregei</i> Hoch.,? | Neb., Ga. |
| 433. | <i>perpusillum</i> C. M., | Mex. |
| 434. | <i>Sartori</i> C. M., | Mex. |
| | “ var. <i>gracilescens</i> , | Mex. |
| | “ “ <i>robustius</i> C. M., | Mex. |

66. *MICROMITRIUM* Sch.

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| 435. | <i>Schlumbergeri</i> Sch., | Mex. |
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67. *SCHLOTHEIMIA* Brid.

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| 436. | <i>Sullivanti</i> C. M., | Gulf Sts. |
| 437. | <i>Sartorii</i> Sch., | Mex. |
| 438. | <i>sphæropoma</i> Duby, | Mex. |
| 439. | <i>Mohriana</i> C. M., | Mex. |

Family V. ORTHOTRICHEÆ. •

68. *ULOTA* Brid.

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| 440. | <i>Drummondii</i> Grex., | Br. Am. |
| 441. | <i>Ludwigii</i> Brid., | N. Y., Alleg'y Mts., Br. Am. |
| 442. | <i>curvifolia</i> Wahl., | Br. Am. |
| 443. | <i>crispa</i> Hedw., | No. and East. U. S., Br. Am. |
| 444. | <i>*crispula</i> Hornsch., | No. and East. U. S., Br. Am. |
| 445. | <i>phyllantha</i> Brid., | Pac. Coast. |
| 446. | <i>Hutchinsiae</i> Smith., | Atl. Sts., Col., G'land. |
| 447. | <i>Barclayi</i> Mitt., | Alaska. |

69. *ORTHOTRICHUM* Hedw.

A. Peristome usually simple.

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| 448. | <i>anomalum</i> Hedw., | No. and East. U. S., Br. Am., Col., G'land. |
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| 440. | cupulatum Hoffm., | |
| | “ var. Peckii, } (O. Porteri (S. & L.), Aust.) Pa., N. Y., | |
| | “ “ Porteri, } N. J., Ga. | |
| | “ “ parvulum, N. E. Sts., ? N. Mex., Col. | |
| | “ “ minus, (O. Lescurii Aust.) Mid. and N. E. Sts., } | |
| | | Col., Lake Ont. } |
| 450. | Sturmii H. & H., | Tex., N. Mex., Col., Cal. |
| 451. | Texanum Sull., | Tex., N. Mex., Col., Pac. Coast. |
| | “ var. globosum, | Pac. Coast. |
| 452. | Jamesianum Sull., | Can., Na. |
| | <i>B. Peristome double, ciliæ either 8 or 16.</i> | |
| 453. | rupestre Sch., | Col., Pac. Coast. |
| 454. | obtusifolium Schrad., | Mid. Sts. |
| 455. | affine Schrad., | Lake Superior region. |
| 456. | speciosum Nees., | Br. Am., Col., Pac. Coast. |
| | “ var. polyanthum Lx., | Cal. |
| | “ “ brevicaule Lx., | Pac. Coast. |
| 457. | Rauaei Aust., | Col. |
| 458. | alpestre Hornsch., var. | Can., Rky. Mts. |
| 459. | fallax Swartz, | N. J. |
| | “ var. truncatulum Aust., | Ill. |
| 460. | tenellum Bruch., | Col. |
| 461. | exiguum Sull., | S. C. |
| 462. | brachytrichum Sch., | Pa., N. Y., Lake Sup., Br. Columb. |
| 463. | strangulatum Beauv., | N. E. Sts. to Va. and O. (?) |
| 464. | *sordidum S. & L., | Mid. and N. E. Sts., Br. Am. |
| 465. | Ohioense S. & L., | O., Mid. and N. E. Sts., Br. Am. |
| 466. | psilocarpum Jas. (O. pusillum Mitt.?), | Mid. Sts., Conn., S. C. |
| 467. | Hallii S. & L., | Col. |
| 468. | Kingianum Lx., | Col., Na. |
| 469. | Macouni Aust., | Br. Columb. |
| 470. | Bolanderi Sull., | Cal. |
| 471. | cylindricarpum Lx. (O. Coulteri Mitt.?), | Cal., Col. |
| 472. | consmile Mitt., | Br. Am., Col., Pac. Coast. |
| 473. | Columbicum Mitt., | Pac. Coast. |
| 474. | elegans Sch., | Br. Columb. |
| 475. | Watsoni Jas., | Na., Col. |
| | <i>C. Peristomal teeth 8 soon broken up into 16, ciliæ 16.</i> | |
| 476. | pallens Bruch., | Br. Columb. |
| 477. | rivulare Turn., | Pac. Coast. |
| 478. | diaphanum Schrad. (O. canum Mitt.), | Br. Am., Col. |
| 479. | pulchellum Sm., | Br. Am., Pac. Coast. |
| 480. | Hainesiae Aust., | Col. |
| 481. | pynophyllum Sch.. | Mex. |
| 482. | recurvans Sch., | Mex. |

D. Peristomal teeth 16 composed of a double series of cells, eroded at the sides and papillose.

483. *Lyellii* H. & T., Br. Am., Pac. Coast.
484. *leiocarpum* B. & S. (*O. speciosum* Nees. var. *polyanthum* Lx.)
fide Aust.), N. E. Sts., Br. Am. }

Family VI. ENCALYPTEÆ.

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| 70. | ENCALYPTA Schrad. | |
| 485. | commutata N. & H., | Br. Am., Rky. Mts. |
| 486. | vulgaris Hedw., | Br. Am., Rky. Mts., Pac. Coast. |
| | " var. obtusa, | Col. |
| 487. | rhabdocarpa Schwj., | Br. Am., Rky. Mts., N. Mex. |
| 488. | ciliata Hedw., N. H., N. Y., O., | Br. Am., Rky. Mts., Pac. Coast. |
| 489. | apophysata N. & H., | Rky. Mts. |
| 490. | procera Bruch, | Br. Am. |
| 491. | streptocarpa Hedw., | Mid. Sts., Br. Am., Cal. |
| 492. | Mexicana C. M., | Mex. |
| 493. | *longipes Mitt., | Rky. Mts. |
| 494. | Macounii Aust., | Can. |
| 495. | Selwynii Aust., | Vanc'r I. |

Tribe IX. TETRAPHIDACEÆ.

Family I. TETRAPHIDEÆ.

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| 71. | <i>TETRAPHIS Hedw.</i> | |
| 496. | <i>pellucida Hedw.,</i> | U. S., Br. Am. |
| 72. | <i>TETRODONTIUM Schweg.</i> | |
| 497. | <i>repandum Funk,</i> | Wht. Mts., N. H. |

Tribe X. SCHISTOSTEGACEÆ.

Family I. SCHISTOSTEGEÆ.

73. *SCHISTOSTEGA* *Mohr.*
498. *osmundaceæ* *W. & M.*, N. Y., Wht. Mts., Br. Am.

Tribe XI. SPLACHNACEÆ.

Family I. TAYLORIEÆ.

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| 74. | DISSODON G. & A. | |
| 499. | Frælichianus <i>Fræl.</i> , | Rky. Mts. |
| 500. | Hornschuchii <i>Grev.</i> , | Rky. Mts. |
| 501. | splachnoides <i>Thun.</i> , | Col., Br. Am. |

75. *TAYLORIA Hook.*

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| 502. <i>splachnoides Hook.</i> , | Col., Br. Am. |
| 503. <i>serrata B. & S.</i> , | Pac. Coast, Col., Br. Am. |
| 504. <i>tenuis Dicks.</i> , | G'land. |

Family II. SPLACHNEÆ.

76. *TETRAPILODON B. & S.*

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| 505. <i>angustatus B. & S.</i> , | Wht. Mts., Br. Am., Arc. regions. |
| 506. <i>australis S. & L.</i> , | Atl. Sts. |
| 507. <i>mniioides B. & S.</i> , | N. Y., Br. Am., G'land. |
| " var. <i>Adamsianus</i> , | Arc. regions. |
| " " <i>cavifolius</i> , | Arc. regions. |
| 508. <i>urceolatus B. & S.</i> , | Rky. Mts. |

77. *SPLACHNUM L.*

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| 509. <i>Wormskjoldii Hornsch.</i> , | Arc. Am., G'land. |
| 510. <i>sphæricum L.</i> , | Br. Am. |
| 511. <i>vasculosum L.</i> , | Arc. regions. |
| 512. <i>ampullaceum L.</i> , | N. E. to Pa. and O. |
| 513. <i>rubrum L. (S. Fowleri Aust.)</i> , | Me., Br. Am. |
| 514. <i>melanocaulon Schw.</i> , | Pac. Coast. |

Tribe XII. DISCELIACEÆ.

Family I. DISCELIÆ.

78. *DISCELIUM Brid.*

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| 515. <i>nudum Dicks.</i> , | Pa., O., Can. to Vanc'r I. |
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Tribe XIII. FUNARIACEÆ.

Family I. PHYSCOMITRIÆ.

79. *APHANORRHAGMA Sull.*

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| 516. <i>serratum Sull.</i> , | Mid. and West. Sts. |
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80. *PYRAMIDULA Brid.*

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| 517. <i>tetragona Brid.</i> , | N. Am. |
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81. *PHYSCOMITRIUM Brid.*

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| 318. <i>pyriforme L.</i> , Ill., Atl. Sts., Fla., La., Br. Am., Col., Pac. Coast. | |
| 319. <i>hians Lindby. (P. latifolium Hook.)</i> , | O., Col. |
| 520. <i>immersum Sull.</i> , | Ill., Mid. Sts., O., S. C. |
| 521. <i>subsphæricum Sch.</i> , | Mex. |
| 522. <i>tetragonum B. & S.</i> , | Ind., Tex., Col. |

550. *Lescuriana Sull.*, N. E., Mid. Sts., Va., Br. Am.
 551. *nutans Schreb.*, No. and East. U. S., Pac. Coast.
 " *var. caespitosa*, Col.
 " *" bicolor*, Pa.
 " *" longiseta*, Col.
 552. *cucullata Schwg.*, Wht. Mts., Pac. Coast.
 553. *cruda Schreb.*, No. and East. U. S., Br. Am., Col., Mex.
 554. *Schimperi C. M.*, G'land.
 555. *annotina Hedw.*, N. E., Mid. Sts., Br. Am.
 556. *Bolanderi Lx.*, Cal.
 557. *Ludwigii Schwg.*, Br. Am., Rky. Mts., Pac. Coast.
 558. *Tozeri Grev.*, Pac. Coast.
 559. *albicans Wahl.*, No. and East. U. S., Br. Am., Pac. Coast.
 " *gracilior*, Pac. Coast.
 560. *integridens Sch.*, Mex.
 561. *spectabilis Hpe.*, Mex.
 562. *cylindrica Sch.*, Mex.
 563. *Mulleriana Sch.*, Mex.
 564. *falcata Besch.*, Mex.
 565. *nudicaulis Lx.*, Pac. Coast.
 566. *subdenticulata B. & S.*, Col.
87. **BRYUM Dill.**
 567. *arcticum R. Br.*, Pac. Coast, Rky. Mts., Br. Am., G'land.
 568. *purpurascens R. Br.*, Rky. Mts., Br. Am.
 569. *Brownii R. Br.*, Rky. Mts., Br. Am.
 570. *Lindgreni Sch. (B. arcticum B. & S.)*, Pac. Coast. Rky. Mts.
 571. *pendulum Hornsch. (B. cernuum B. & S.)*, No. and East. U. S., {
 Br. Am., Rky. Mts., Pac. Coast. }
 572. *inclinatum Swartz.*, Br. Am., Pac. Coast.
 573. *Warneum Bland*, Pac. Coast.
 574. *uliginosum Bruch*, Mid. and West. Sts., Br. Am., Rky. Mts.
 575. *flexuosum Aust.*, Br. Columb.
 576. *intermedium W. & M.*, U. S., Br. Am.
 577. *cirrhatum H. & H.*, Col., Pac. Coast.
 578. *bimum Schreb.*, No. and East. Sts., Rky. Mts., Pac. Coast.
 579. *torquescens B. & S.*, Br. Am., Tex., N. Mex., Ala., Pac. Coast.
 580. *provinciale Phil.*, Fla.
 581. *pallescens Schleich.*, O., Br. Am., Col., Pac. Coast.
 582. *subrotundum Brid.*, Br. Am., Pac. Coast.
 583. *atropurpureum W. & M.*, O., Tenn., Ala., Fla.
 584. *murale Wils.*, Mex.
 585. *alpinum Link*, Wht. Mts.
 586. *Muhlenbeckii B. & S.*, Pa., Col.
 587. *caespitium L.*, No. and East. U. S., Col., Ala., Br. Am., Pac. Cst.

588.	<i>Blindii</i> B. & S.,	Br. Am.
589.	<i>argenteum</i> L.,	U. S., Br. Am.
	" <i>var. corrugatum</i> Hpe.,	Mex.
590.	<i>capillare</i> L.,	U. S., Mex.
	" <i>var. longicolla</i> ,	Mex.
591.	<i>obconicum</i> Hornsch.,	Col., Pac. Coast.
592.	<i>Canariense</i> Brid.,	Pac. Coast.
593.	<i>cyclophyllum</i> Schwg.,	Mid. Sts.
594.	<i>pallens</i> Swartz,	Mid. Sts., Br. Am.
595.	<i>Duvallii</i> Voit,	N. E., Pac. Coast.
596.	<i>pseudo-triquetrum</i> Schwg.,	No. and East. U. S., Br. Am., { Col., Pac. Coast. }
597.	<i>turbinatum</i> Hedw.,	Col., Can., and West'd to Pac. Coast.
	" <i>var. latifolium</i> ,	Pac. Coast.
598.	<i>systilium</i> C. M.,	Mex.
599.	<i>imbricatum</i> Sch.,	Mex.
600.	<i>minutulum</i> Hpe.,	Mex.
601.	<i>Mexicanum</i> Mont.,	Mex.
602.	<i>tenellum</i> Sch.,	Mex.
603.	<i>rosulatum</i> C. M.,	Mex.
604.	<i>patulum</i> Sch.,	Mex.
605.	<i>angustatum</i> Sch.,	Mex.
606.	* <i>Clintoni</i> Aust.,	N. Y.
607.	<i>Biddlecomiæ</i> Aust.,	Col.
608.	* <i>Macouni</i> Aust.,	Br. Am., Pac. Coast.
609.	* <i>Rauei</i> Aust.,	Wht. and Catskill Mts.
610.	<i>sanguineum</i> Ludw.,	Ala.
611.	<i>occidentale</i> Sull.,	Pac. Coast.
612.	<i>Californicum</i> Sull.,	Pac. Coast.
613.	<i>Bigelowii</i> Sull.,	Pac. Coast.
614.	<i>Atwateriæ</i> C. M.,	Col.
615.	<i>Mohrii</i> Lx.,	La.
616.	<i>minutulum</i> Sch.,	Mex.
617.	<i>plagiopodium</i> Sch.,	Mex.
618.	<i>brevicaule</i> Sch.,	Mex.
619.	<i>Pohliæforme</i> Sch.,	Mex.
620.	<i>coronatum</i> Schwg.,	Fla., Mex.
621.	<i>andicola</i> Hook.,	Mex.
622.	<i>Bolteri</i> C. M.,	Mex.
623.	<i>Mexicanum</i> Mont.,	Mex.
624.	<i>didymodontium</i> Mitt.,	Mex.
625.	<i>miniatum</i> Lx.,	Col.
626.	<i>Oreganum</i> Sull.,	Cal.
627.	<i>roseum</i> Schreb.,	U. S., Br. Am.
628.	<i>domingense</i> Steud.,	Mex.

629.	procerum <i>Sch.</i> ,	Mex.
630.	Ehrenbergianum <i>C. M.</i> ,	Mex.
631.	comatum <i>Besch.</i> ,	Mex.
632.	subroseum <i>Besch.</i> ,	Mex.
633.	Liebmanni <i>Sch.</i> ,	Mex.
634.	Sartorii <i>Sch.</i> ,	Mex.
635.	concinatum <i>Spruce</i> ,	N. Y.
636.	prostratum <i>C. M.</i> ,	Mex.

88. *ZIERIA Sch.*

637.	julacea <i>Dicks.</i> ,	Col.
638.	demissa <i>Hornsch.</i> ,	Col.

89. *RHIZOGONIUM Br.*

639.	spiniforme <i>Br.</i> ,	Gulf Sts., Mex.
640.	Menziesii (<i>Hook.</i>) (<i>Mnium Menziesii Hook.</i>),	Cal., Or., Br. Colb.

90. *MNIUM L.**A. Leaves bordered simply serrate.*

641.	cuspidatum <i>Hedw.</i> ,	No. and East. U. S., Br. Am., Col.
642.	affine <i>Bland.</i> ,	No. and East. U. S., Br. Am., Pac. Coast.
	" var. elatum,	Pa., Col.
	" " rugicum,	Ohio.
643.	medium <i>B. & S.</i> ,	Mid. Sts., Br. Am., Pac. Coast.
644.	Drummondii <i>B. & S.</i> ,	Mts. of N. E., N. Y., Pa., Br. Am.
645.	rostratum <i>Schrad.</i> ,	No. and East. U. S., Br. Am., Mex., Col.
646.	*insigne <i>Mitt.</i> (<i>M. affine Bland. var. ?</i>),	Pac. Coast.
647.	venustum <i>Mitt.</i> ,	Pac. Coast.
648.	*Nevii <i>C. M.</i> ,	Oregon.

B. Leaves bordered doubly dentate.

649.	hornum <i>L.</i> ,	No. and East. U. S., Br. Am.
650.	serratum <i>Schrad.</i> ,	No. and East. U. S., Br. Am., Col.
651.	orthorrhynchum <i>B. & S.</i> ,	No. and East. U. S., Br. Am.
652.	lycopodioides <i>Hook.</i> ,	No. and East. U. S., Br. Am.
653.	spinosum <i>Voit.</i> ,	Col.
654.	spinulosum <i>B. & S.</i> ,	U. S., Br. Am.
655.	*umbratile <i>Mitt.</i> ,	Br. Columb.

C. Leaves not bordered.

656.	stellare <i>Hedw.</i> ,	No. and East. U. S., Br. Am.
657.	cinclidioides <i>Blytt.</i> ,	No. and East. U. S., Br. Am.

D. Leaves bordered entire.

658.	punctatum <i>Hedw.</i> ,	No. and East. U. S., Br. Am.
659.	subglobosum <i>B. & S.</i> ,	Br. Am., Col., Pac. Coast.

91. *CINCLIDIUM Swartz., Schrad.*

660.	stygium <i>Swartz.</i> ,	Labrador, G'land.
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661. *subrotundum* *Brid.*,

Labrador, G'land.

Family III. AMBLYODONTEÆ.

92. AMBLYODON *P. Beauv.*662. *dealbatus* *Dicks.*,

N. Y., Wis., Col.

Family IV. MEESEÆ.

93. CATOSCOPIUM *Brid.*663. *nigratum* *Brid.*,

Rky. Mts., Br. Am.

94. MEESEA *Hedw. (Meesia.)*664. *trichodes* (*L.*) *Spruce (M. uliginosa Hedw.)*, Wht. Mts., N. Y., {
O., Br. Am., Col., Pac. Coast. }" var. *alpina*, Alpine and Northern regions.665. *longiseta* *Hedw.*, N. E. and Mid. Sts., Pac. Coast.666. *triquetra* (*L.*) *Lindbg. (M. tristicha Funk.)*, Mid. Sts., Br. Am., {
Pac. Coast. }667. *Macouni* *Aust.*, Br. Columb.95. PALUDELLA *Ehr.*668. *squarrosa* *L.*,

N. Y., Br. Am., Arc. regions.

Family V. AULACOMNIEÆ.

96. AULACOMNION *Schw.*669. *androgynum* *L.*,

Col., Br. Am., Pac. Coast.

670. *palustre* *L. (A. papillosum C. M.)*,

U. S., Br. Am.

" var. *rupestris*,

Atl. Sts.

671. *turgidum* *Wahl.*,

Adirond'k and Wht. Mts., G'land.

672. *heterostichum* *Br. Eu.*,

No. and East. U. S., Br. Am.

Family VI. BARTRAMIEÆ.

97. BARTRAMIA *Hedw.*673. *subulata* *B. & S.*,

Col.

674. *stricta* *Brid.*,

Pac. Coast.

675. *Menziesii* (*Hook.*),

Pac. Coast.

676. *Campylopus* *Sch.*,

Mex.

677. *subithyphylla* *Besch.*,

Mex.

678. *ithyphylloides* *Sch.*,

Mex.

679. *Schimperi* *C. M.*,

Mex.

680. *glauca* *Ltz.*,

Mex.

681. *ithyphylla* *Brid.*,

Alle'g'y and Rky. Mts., Br. Am.

682. *pomiformis* L., No. and East. U. S., Br. Am.
 683. *Halleriana* Hedw., No. Am.
 684. *Oederi* Gun., (*Oederi* imbr.) No. and East. U. S., Br. Am.
98. GLYPHOCARPA R. Br.
 685. *intertexta* Sch., Mex.
99. CONOSTOMUM Sw.
 686. *boreale* Dicks., Adirond'k and Alleg'y Mts.
100. BARTRAMIDULA B. & S.
 687. *Wilsoni* B. & S., N. J.
101. PHILONOTIS Brid.
688. *Marchica* Brid. (*B. Muhlenbergii* Schwg.), No. and East. U. S., {
 Br. Am., Rky. Mts., Pac. Coast. }
 689. *fontana* L., No. and East. U. S., Br. Am., Rky. Mts., Pac. Coast.
 " *var. falcata*, Col., N. J., Wht. Mts.
 690. *radicalis* Beauv., Pa., O., So. Sts.
 " *var. Porteri* Aust., Pa., O., N. Y.
 691. *tenella* Hedw., Fla.
 692. *graminicola* C. M., Mex.
 693. *Mohrjana* C. M., Mex.
 694. *Orizabana* Sch., Mex.
 695. *brachyclada* Besch., Mex.
 696. *erythrocaulis* C. M., Mex.
 697. *amblyoblaster* C. M., Mex.
 698. *Sartorii* C. M., Mex.
102. BREUTELIA Sch.
699. *arcuata* Dicks., Mex.
 700. *subarcuata* Sch., Mex.
 701. *intermedia* Hpe., Mex.

Family VII. TIMMIEÆ.

103. TIMMIA H.
702. *megapolitana* Hedw. (*T. bavaria* Hes.), No. and East. U. S., {
 Br. Am., Rky. Mts., Pac. Coast. }
 703. *Austriaca* Hedw., Br. Am., Br. Columb., Col.

Tribe XV. POLYTRICHACEÆ.

Family I. POLYTRICHEÆ.

104. ATRICHUM P. Beauv.
704. *undulatum* L., U. S., Br. Am.

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| 705. | <i>angustatum</i> Brid., | No. Am. |
| 706. | <i>crispum</i> Jas., | Mid. Sts., Br. Am. |
| 707. | <i>parallelum</i> Mitt., | Rky. Mts., Br. Am. |
| 708. | <i>Selwyni</i> Aust., | No. West. Coast, Br. Am. |
| 709. | <i>Lescurii</i> Jas., | Alaska. |
| 710. | <i>polycarpum</i> Sch., | Mex. |
| 711. | <i>subulirostrum</i> Sch., | Mex. |
| 712. | <i>Mulleri</i> Sch., | Mex. |
| 713. | <i>torquescens</i> Sch., | Mex. |
| | | |
| 105. | OLIGOTRICHUM D. C. | |
| 714. | <i>Aligerum</i> Mitt., | Rky. Mts. |
| 715. | <i>Lyellii</i> Mitt., | Pac. Coast, Rky. Mts. |
| | | |
| 106. | PSILOPILUM Brid. | |
| 716. | <i>arcticum</i> Wahl., | Arct. America. |
| | | |
| * 107. | POGONATUM P. Beauv. | |
| 717. | <i>tenue</i> Menz. (<i>P. brevicaule</i> Brid.), | East. and West. Sts., La. |
| 718. | <i>brachyphyllum</i> (Mr.) Beauv., | N. J. to So. Sts. |
| 719. | <i>capillare</i> Mr., | Br. Am., Rky. Mts. |
| | “ var. <i>dentatum</i> , | Alaska. |
| 720. | <i>contortum</i> Menz., | Pac. Coast. |
| 721. | <i>urnigerum</i> Brid., | Wht., Adirond'k, Catskill, Alleg'y Mts., Col. |
| 722. | <i>atrovirens</i> Mitt. | Alaska, Br. Am. and South'd. |
| 723. | <i>alpinum</i> Brid., | N. E. and Mid. Sts. to Col., Pac. Coast. |
| | “ var. <i>septentrionale</i> , | Col. |
| 724. | <i>cuspidatum</i> Besch., | Mex. |
| 725. | <i>Schmitzii</i> Besch., | Mex. |
| 726. | <i>Beschereilii</i> Hpe., | Mex. |
| 727. | <i>Tolucense</i> Hpe., | Mex. |
| 728. | <i>comosum</i> Sch., | Mex. |
| 729. | <i>campylocarpum</i> C. M., | Mex. |
| 730. | <i>subgracile</i> Hpe., | Mex. |
| 731. | <i>albovaginatum</i> Hpe., | Mex. |
| 732. | <i>Liebmanni</i> Sch., | Mex. |
| 733. | <i>leptocarpum</i> Besch., | Mex. |
| 734. | <i>glaciale</i> Mitt., | Mex. |
| 735. | <i>Schlumbergeri</i> Sch., | Mex. |
| 736. | <i>robustum</i> Sch., | Mex. |
| 737. | <i>ericifolium</i> Besch., | Mex. |
| 738. | <i>cylindricum</i> Sch., | Mex. |
| 739. | <i>macropogon</i> Sch., | Mex. |
| | | |
| * 108. | POLYTRICHUM L. | |
| 740. | <i>gracile</i> Menz., | O., Br. Am., Col. |

* *P. brevicaule*, Beauv., N. Spec. in herb.

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| 741. | formosum <i>Hedw.</i> , | East. U. S., Br. Am. |
| 742. | piliferum <i>Schreb.</i> , N. Y., N. J., O., | Br. Am., Col., Pac. Coast. |
| | “ var. <i>lævipilum</i> , | Col., Pac. Coast. |
| 743. | juniperinum <i>Hedw.</i> , | U. S., Br. Am. |
| | “ var. <i>alpinum</i> , | Rky. Mts. |
| | “ <i>strictum</i> , | N. Y., N. J. |
| 744. | commune <i>L.</i> , | U. S., Br. Am. |
| 745. | juniperiforme <i>Sch.</i> , | Mex. |
| 746. | Ghiesbrechtii <i>Besch.</i> , | Mex. |
| 747. | subflexuosum <i>Ltz.</i> , | Mex. |
| 748. | <i>Scutellaria</i> <i>Sp.</i> | Mex. |

(To follow sp. 749, page 31.)

Tribe XVI. BUXBAUMIACEÆ.

Family I. DIPHYSCIEÆ.

- 108a. *DIPHYSCIUM Mohr.*
 ↘ 749a. *foliosum Burb.*, East., Mid. and West. Sts., Br. Am.
- 108b. *BUXBAUMIA Hall.*
 749b. *aphylla Hall.*, East., Mid. and West. Sts., Br. Am., Pac. Coast.
750. *Novæ-Angliæ Sull.*, N. E. and Mid. Sts. and West'd, Br. Am.
 751. *biformis Sull.*, Ohio.
 752. *Lescurii Sull.*, Can., N. E., Fla.
 " *var. cymbifolia*, N. J., Va.
 " *var. ramosior*, N. H., Vt.
 753. *Sullivanti Lindby.* (*F. Lescurii Sull.*, *var. gracilescens Sull.* {
 Icon.), N. J. {
 754. *filiformis S. & L.*, (*F. disticha H. & W.*, *var. tennior S. Icon.*), {
 Kentucky. }
 755. *Dalecarlica Br. Eu.*, N. E. and Mid. Sts. and West'd, Br. Am.
 756. *Neo-Mexicana S. & L.*, N. Mex., Rky. Mts., Col., Pac. Coast.
 757. *antipyretica L.*, Br. Am., Pac. Coast.
 " *var. gigantea*, N. E. and Mid. Sts. and West'd.
 758. *disticha H. & W.*, N. E. and Mid. Sts., Ky., Ala., La.
 759. *hypnoides Hartm.*, Br. Am., Col.
110. *DICHELYMA Myrin.*
 760. *capillaceum Dill.*, N. Y., Can., N. Scotia, Pa., Col.
 761. *falcatum Myrin.*, Catskill Mts., N. E., Br. Am.
 762. *pallescens Br. Eu.*, N. Y., N. E., N. Bruns'k, Br. Am.
 763. **subulatum Myrin.*, La.
 764. *uncinatum Mitt.*, Pac. Coast.
 765. **cylindrocarpum Aust.*, Oregon.

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| 705. | <i>angustatum</i> Brid., | No. Am. |
| 706. | <i>crispum</i> Jas., | Mid. Sts., Br. Am. |
| 707. | <i>parallelum</i> Mitt., | Rky. Mts., Br. Am. |
| 708. | <i>Selwyni</i> Aust., | No. West. Coast, Br. Am. |
| 709. | <i>Lescurii</i> Jas., | Alaska. |
| 710. | <i>polycarpum</i> Sch., | Mex. |
| 711. | <i>subulirostrum</i> Sch., | Mex. |
| 712. | <i>Mulleri</i> Sch., | Mex. |
| 713. | <i>torquescens</i> Sch., | Mex. |
| 105. | OLIGOTRICHUM D. C. | |
| 714. | <i>Aligerum</i> Mitt., | |
| 715. | <i>L...</i> | |

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| | | Alaska, Br. Am. and South'd. |
| 723. | <i>alpinum</i> Brid., | N. E. and Mid. Sts. to Col., Pac. Coast. |
| | “ var. <i>septentrionale</i> , | Col. |
| 724. | <i>cuspidatum</i> Besch., | Mex. |
| 725. | <i>Schmitzii</i> Besch., | Mex. |
| 726. | <i>Bescherellii</i> Hpe., | Mex. |
| 727. | <i>Tolucense</i> Hpe., | Mex. |
| 728. | <i>comosum</i> Sch., | Mex. |
| 729. | <i>campylocarpum</i> C. M., | Mex. |
| 730. | <i>subgracile</i> Hpe., | Mex. |
| 731. | <i>albovaginatum</i> Hpe., | Mex. |
| 732. | <i>Liebmanni</i> Sch., | Mex. |
| 733. | <i>leptocarpum</i> Besch., | Mex. |
| 734. | <i>glaciale</i> Mitt., | Mex. |
| 735. | <i>Schlumbergeri</i> Sch., | Mex. |
| 736. | <i>robustum</i> Sch., | Mex. |
| 737. | <i>ericifolium</i> Besch., | Mex. |
| 738. | <i>cylindricum</i> Sch., | Mex. |
| 739. | <i>macropogon</i> Sch., | Mex. |

108. POLYTRICHUM L.
740. *gracile* Menz.,

O., Br. Am., Col.

* *P. brivicaule*, Beauv., N. Spec. in herb.

741.	formosum <i>Hedw.</i> ,	East. U. S., Br. Am.
742.	piliferum <i>Schreb.</i> , N. Y., N. J., O.,	Br. Am., Col., Pac. Coast.
	“ var. <i>lævipilum</i> ,	Col., Pac. Coast.
743.	juniperinum <i>Hedw.</i> ,	U. S., Br. Am.
	“ var. <i>alpinum</i> ,	Rky. Mts.
	“ “ <i>strictum</i> ,	N. Y., N. J.
744.	commune <i>L.</i> ,	U. S., Br. Am.
745.	juniperiforme <i>Sch.</i> ,	Mex.
746.	Ghiesbrechtii <i>Besch.</i> ,	Mex.
747.	subflexuosum <i>Ltz.</i> ,	Mex.
748.	Sartorii <i>C. M.</i> ,	Mex.
749.	aristatum <i>Sch.</i> ,	Mex.

Series II. PLEUROCARPÆ.

Tribe I. FONTINALACEÆ.

Family I. FONTINALEÆ.

109. FONTINALIS *Dill.*

750.	<i>Novæ-Angliæ Sull.</i> ,	N. E. and Mid. Sts. and West'd, Br. Am.
751.	<i>biformis Sull.</i> ,	Ohio.
752.	<i>Lescurii Sull.</i> ,	Can., N. E., Fla.
	" <i>var. cymbifolia</i> ,	N. J., Va.
	" <i>ramosior</i> ,	N. H., Vt.
753.	<i>Sullivanti Lindby.</i> (<i>F. Lescurii Sull.</i> , <i>var. gracilescens Sull.</i>)	
		<i>Icon.</i> , N. J. }
754.	<i>filiformis S. & L.</i> (<i>F. disticha H. & W.</i> , <i>var. tennior S. Icon.</i>), }	
		Kentucky. }
755.	<i>Dalecarlica Br. Eu.</i> ,	N. E. and Mid. Sts. and West'd, Br. Am.
756.	<i>Neo-Mexicana S. & L.</i> ,	N. Mex., Rky. Mts., Col., Pac. Coast.
757.	<i>antipyretica L.</i> ,	Br. Am., Pac. Coast.
	" <i>var. gigantea.</i>	N. E. and Mid. Sts. and West'd.
758.	<i>disticha H. & W.</i> ,	N. E. and Mid. Sts., Ky., Ala., La.
759.	<i>hypnoides Hartm.</i> ,	Br. Am., Col.

110. DICHELYMA *Myrin.*

760.	capillaceum <i>Dill.</i> ,	N. Y., Can., N. Scotia, Pa., Col.
761.	falcatum <i>Myrin.</i> ,	Catskill Mts., N. E., Br. Am.
762.	pallescent Br. <i>Eu.</i> ,	N. Y., N. E., N. Bruns'k, Br. Am.
763.	*subulatum <i>Myrin.</i> ,	La.
764.	uncinatum <i>Mitt.</i> ,	Pac. Coast.
765.	*cylindrocarpum <i>Aust.</i> ,	Oregon.

Tribe II. NECKERACEÆ.

Family I. CRYPHÆEÆ.

111. CRYPHÆA Mohr.
 766. *glomerata* Sch., N. J., So. Sts.
 " var. *pendula* (*C. pendula* L. & J.), Fla.
 767. *nervosa* H. & W., So. Sts.
 768. *Ravenellii* Aust., Ga.
 769. *Schiedeana* C. M., Mex.
 770. *reticulata* Besch., Mex.
 771. *nitidula* Sch., Mex.
 772. *cuspidata* Sch., Mex.
 773. *leptophylla* Sch., Mex.
 774. *pinnata* Sch., Mex.
 775. *Orizabæ* Sch., Mex.
 776. *filiformis* Brid., Mex.
 777. *pachycarpa* Sch., Mex.
 778. *patens* Hornsch., Mex.
 779. *polycarpa* Sch., Mex.
 780. *Sartorii* Sch., Mex.
 781. *intermedia* C. M., Mex.
 782. *decurrens* C. M., Mex.
 783. *attenuata* Sch., Mex.
112. ACROCRYPHÆA Sch.
 784. *Mexicana* Sch., Mex.
113. DENDROPOGON Sch.
 785. *rufescens* Sch., Mex.

Family II. LEPTODONTEÆ.

114. LEPTODON Mohr.
 786. *trichomitron* Mohr, No. and East. U. S., Br. Am.
 " var. *immersus* S. & L., O., So. Sts.
 787. *Ohioensis* Sull., O., Ind.
 788. *nitidus* Lindb., Can.
 789. *circinatus* Sull., Cal.
115. ALSIA Sull.
 790. *Californica* H. & A., Pac. Coast.
 791. *longipes* S. & L., Pac. Coast.
 792. *abietina* (Hook.), Sull., Pac. Coast.

Family III. NECKEREÆ.

116. *PHYLLOGONIUM* Brid.
 793. *viride* Brid., Mex.

*117. *NECKERA* H.*A. Capsule immersed.*

794. *pennata* Hedw., Atl. and West. Sts., Col., Mex.
 795. *oligocarpa* Br. Eu., N. E., N. Y., Col., N. Mex., Br. Am.
 796. *Menziesii* Hook., Pac. Coast.
 797. *Douglasii* Hook., Pac. Coast.
 798. *undulata* Hedw., Mex., Fla.
 799. *disticha* Hedw., Fla., Mex.
 800. *chlorocaulis* C. M., Mex.
 801. *Ehrenbergii* C. M., Mex.
 802. *Hornschuchiana* C. M., Mex.
 803. *angustifolia* C. M., Mex.
 804. *leptophylla* Sch., Mex.
 805. *Liebmanni* Sch., Mex.
 806. *pachycarpa* Sch., Mex.
 807. *Orbignyana* Ltz., Mex.

B. Capsule exerted.

808. *complanata* Hedw., N. E., Pa., Tenn.
 809. *pumila* Hedw., N. Am.
 810. *urnigera* C. M., Mex.
 811. *orthorrhyncha* Besch., Mex.
 812. *microcarpa* Sch., Mex.
 813. **Caloosiensis* Aust., Fla.

118. *HOMALIA* Brid. (*Omalia*)
 814. *trichomanoides* (Schreb.), N. E. and Mid. Sts., Br. Am.
 815. *gracilis* Jas., N. Y., N. J.
 816. *obtusata* Mitt., Br. Columb.
 817. *glabella* Brid., Mex.
 818. *Mohriana* C. M., Mex.
 819. *penduliramea* C. M., Mex.

Family IV. PILOTRICHEÆ.

119. *PILOTRICHELLA* C. M.*A. Orthostichella.*

820. *Ludovicæ* C. M., Gulf Sts.
 821. *tetragona* C. M., Mex.
 822. *rigida* C. M., Mex.
 823. *cymbifolia* (Sull.), Fla.

* *Neckera crispata*, Hedw. Eu. Spec. in Herb.

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| 824. | <i>imbricata Schweg.</i> | Mex. |
| 825. | <i>pulchella Sch.</i> | Mex. |
| 826. | <i>Mexicana Sch.</i> | Mex. |
| | <i>B. Euplotrichella.</i> | |
| 827. | <i>cochlearifolia C. M.</i> | Mex. |
| | " <i>var. flagellifera.</i> | Mex. |
| 828. | <i>turgescens C. M.</i> | Mex. |
| 829. | <i>nigricans Nees,</i> | Mex. |
| | <i>C. Papillaria.</i> | |
| 830. | <i>capillaris C. M.</i> | Mex. |
| 831. | <i>Deppii Hornsch.</i> | Mex. |
| 832. | <i>consanguinea Hpe.</i> | Mex. |
| 833. | <i>Dubyana Hpe.</i> | Mex. |
| 834. | <i>subulifolia Sch.</i> | Mex. |
| 835. | <i>nigrescens C. M.</i> | Mex. |
| 836. | <i>imponderosa Tayl.</i> | Mex. |
| 837. | <i>longifolia Sch.</i> | Mex. |
| 838. | <i>illecebra C. M.</i> | Mex. |
| 839. | <i>teres Mitt.</i> | Mex. |
| 840. | <i>sinuata C. M.</i> | Mex. |
| | <i>D. Meteoridium.</i> | |
| 841. | <i>remotifolia Hornsch.</i> | Mex. |
| 842. | <i>salvatorica Angst.</i> | Mex. |
| 120. | <i>METEORIUM Brid.</i> | |
| 843. | <i>pendulum Sull.</i> | La., Mex. |
| 844. | <i>nigrescens (Swartz.)</i> | Fla., Mex. |
| 845. | <i>patulum C. M.</i> | Mex. |
| 846. | <i>tenue Sch.</i> | Mex. |
| 847. | <i>diversifolium Besch.</i> | Mex. |
| 848. | <i>dielados Sch.</i> | Mex. |
| 849. | <i>*Joorii Aust.</i> | La. |
| 121. | <i>CALLICOSTA C. M.</i> | |
| 850. | <i>delicatula Besch.</i> | Mex. |
| 122. | <i>PTEROBRYUM Hornsch.</i> | |
| 851. | <i>densum Hornsch.</i> | Mex. |

Family V. LEUCODONTÆ.

- * 123. *LEUCODON Schweg.*
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|------|---------------------------------|-----------------|
| 852. | <i>julaceus (Hedw.) Schweg.</i> | East. U. S. |
| 853. | <i>brachypus Brid.</i> | Mid. Sts., Can. |
| 854. | <i>Domingensis Spreng.</i> | Fla. |

* *L. Scuiroides - Eu. sp. in herb.*

124. **PTEROGONIUM** *Swartz*,
 855. *gracile Swartz*, Pac. Coast.
 " *var. duplicato-serratum Hpe.*, Oregon.
 856. *brachypterum Mitt.*, Br. Am.
125. **ANTITRICHIA** *Brid.*
 857. *curtipendula Brid.*, Br. Am., Pac. Coast, N. C.
 " *var. gigantea*, Br. Am., Pac. Coast.
 858. *Californica Sull.*, Br. Am., Pac. Coast.
126. **ASTRODONTIUM** *Schwy.*
 859. *cryptotheca Hpe.*, Mex.
 860. *curvirostre Hpe.*, Mex.
 861. *tenue Besch.*, Mex.
 862. *submersum Hpe.*, Mex.
127. **PRINODON** *C. M.*, Mex.
 863. *densus C. M.*, Mex.
128. **CRYPTOTHECA** *Hornsch.*, Mex.
 864. *cochlearifolia Hornsch.*, Mex.

Tribe III. DALTONIACEÆ.

Family I. DALTONIEÆ.

129. **DALTONIA** *H. & T.*
 865. *splachnoides H. & T.*, Mex.
 866. *crispata Hornsch.*, Mex.
130. **LEPIDOPILUM** *Brid.*
 867. *Deppeanum C. M.*, Mex.
 868. *subenerve Brid.*, Mex.
 869. *Decaisnei Besch.*, Mex.
 870. *nitidum Besch.*, Mex.
 871. *apophysatum Hpe.*, Mex.
 872. *piliferum Besch.*, Mex.
 873. *Mohrianum C. M.*, Mex.
 874. *genuflexum C. M.*, Mex.
 875. *falcatulum C. M.*, Mex.
131. **HOOKERIA** *Tayl.*
 876. *acutifolia Hook.*, O., Alleg'y Mts., N. C., Cal.
 877. *varians Sull.*, Fla.
 878. *albicans Hook.*, Mex.
 879. *Liebmanni Sch.*, Mex.
 880. *cruceana Duby.*, Mex., Fla.

881. *scabriseta* Hook., Mex.
 882. *ciliata* Sch., Mex.

Tribe IV. FABRONIACEÆ.

Family I. FABRONIÆÆ.

132. *FABRONIA Raddi*.
 883. *Wrightii* Sull., Tex., Col.
 884. *pusilla* Raddi., S. Car., Pac. Coast.
 885. *Ravenelii* Sull., S. Car.
 886. *gymnostoma* S. & L., N. Mex., Tex., Ill.
 887. *Carolina* S. & L., S. Car.
 888. *Donnellii* Aust., Fla.
 889. *octoblepharis* (Sch.), N. J., Ind.
 890. *Hampeana* Sond., Mex.
 891. *polycarpa* Hook. (*F. flavinervis* C. M.), Mex.
 " var. *patens*, Mex.
 892. *flavinervis* C. M., Mex.
133. *CLASMATODON* H. & W.
 893. *parvulus* (Hpe.) H. & W., So. Sts., Ind., Ill.
 " var. *rupestris*, N. J., So. Sts.
134. *ANACAMPTODON* Brid.
 894. *splachnoides* Brid., Can. to Gulf Sts.

Family II. MYRINIÆÆ.

135. *MYRINIA* Sch.
 895. *pulvinata* B. & S., Can., Br. Columb.

Tribe V. LESKEACEÆ.

Family I. RHEGMATODONTEÆ.

136. *RHEGMATODON* Brid.
 896. *filiformis* Sch., Mex.
 897. *hypnoides* Sch., Mex.
 898. *fusco-luteus* Sch., Mex.

Family II. LESKEÆÆ.

137. *MYURELLA* Sch.
 899. *Careyana* Sull., N. E. and Mid. Sts., Can.

900. *julacea Villars*, N. Y., N. J., Can., Rky. Mts.
 901. *apiculata Hub.*, Br. Am.
138. *LESKEA Hedw.*
 902. *denticulata Sull.*, East., Mid. and West. Sts., Ala., La.
 903. *Austini Sull.*, Pa., N. J., Ill.
 904. *polycarpa Ehr.*, U. S., Br. Am.
 905. *obscura Hedw.*, U. S., Br. Am.
 906. *nervosa Myrin.*, N. Y., Wht. Mts., Br. Am., Col.
 907. **microcarpa Sch.*, Ala.
 908. *circinalis Hpe.*, Mex.
 909. *Mexicana Besch.*, Mex.
 910. *cæspitosa Brid.*, Mex.
 911. **Wollei Aust.*, N. Y. and West'd.
139. *THELIA Sull.*
 912. *hirtella Hedw.*, East. U. S.
 913. *asprella (Sch.)*, East. U. S.
 914. *Lescurii Sull.*, N. J., Pa., So. Sts.
 915. **robusta Duby.*, Fla.
140. *ANOMODON H. & T.*
 916. *rostratus (H.) Sch.*, East. Mid. and West. Sts., Br. Am.
 917. *tristis H. & T.*, Throughout U. S.
 918. *attenuatus Hartm.*, East. Mid. and West. Sts., Br. Am.
 919. *obtusifolius Br. Eu.*, East. Mid. and West. Sts., Br. Am.
 " var. *fragilis*, N. J., Pa.
 920. *apiculatus B. & S.*, East., Mid. and West. Sts., Br. Am.
 921. *viticulosus (L.) H. & T.*, East., Mid. and West. Sts., Br. Am.
 922. *Toccoæ S. & L.*, Ga., La.
 923. *Californicus Lx.*, Cal.
141. *HELICODONTIUM Schwg.*
 924. *tenuirostre Schwg.*, Mex.
142. *HAPLOHYMENIUM Dz. & Molk.*
 925. *densum Sch.*, Mex.

Family III. PSEUDOLESKEÆ.

143. *PSEUDOLESKEA B. & S.*
 926. *atrovirens Dicks.*, N. E., Br. Am.
 " var. *brachyclados*, Col.
 927. *tectorum Braun, (Hyp. dimorphum Brid.)*, Wht. Mts.
 928. *prælonga Sch.*, Mex.
 929. *subcatenulata Sch.*, Mex.

149. PYLAISIA Sch.

956. intricata (H.) Sch., No. and East. U. S., Col., Br. Am.
957. velutina Br. Eu., N. J. to Can.
958. *heteromalla Mitt., Br. Am.
959. polyantha (Schreb.), Col., Br. Am.
- “ var. Jamesii (S. & L.), N. E.
- “ “ subdenticulata (Sch.), N. J. to O.
960. falcata Sch., Mex.
961. subfalcata Sch., Mex.

Family III. LINDIGIEÆ.

150. LINDIGIA Hpe.

962. tenella Hpe., Mex.

Family IV. CYLINDROTHECIEÆ.

151. CYLINDROTHECIUM Sch.

963. sedutrix (Hedw.), East. U. S., Gulf Sts., East. Br. Am.
964. cladorrhizans Hedw., East. U. S., Gulf Sts.
965. brevisetum (Wils.) Br. Eu., N. J. to Mo., Can.
966. compressum (Hedw.), Pa. to Mo.
967. Sullivantii (C. M.), Tex., N. Car.
968. Drummondii Br. Eu., So. Sts.
969. concinnum (D. N.), Col.
970. polycarpum Sch., Mex.
971. brevirostre Sch., Mex.
972. abbreviatum Sch., Mex.
973. brevipes Sch., Mex.
974. stenocarpum Sch., Mex.
975. complanatum Sch., Mex.
976. Orizabanum Sch., Mex.
977. nitens Sch., Mex.
978. subsecundum Sch., Mex.
979. aurescens Sch., Mex.
980. Mechoacanum C. M., Mex.
981. neglectum C. M., Mex.
982. distans C. M., Mex.
983. cochleatus C. M., Mex.

152. ROZEA Besch.

984. chrysea Besch., Mex.
985. Bourgaeana Besch., Mex.

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| 986. | subulacea Besch., | Mex. |
| 987. | viridis Besch., | Mex. |
| 988. | Schimperii Besch., | Mex. |
| 989. | stricta Besch., | Mex. |
| 990. | Andrieuxii Besch., | Mex. |
| 153. | LEPTOHYMENIUM Schwy. | |
| 991. | myuroides Sch., | Mex. |
| 992. | longisetum Hpe., | Mex. |
| 993. | cylindrocaule Hpe., | Mex. |
| 994. | affine Sch., | Mex. |
| 995. | julaceum Sch., | Mex. |
| 996. | Bonplandi Besch., | Mex. |
| 997. | patulum (L.?) Sch., | Mex. |
| 154. | POROTRICHUM Brid. | |
| 998. | Mexicanum Sch., | Mex. |
| 155. | CLIMACIUM W. & M. | |
| 999. | dendroides (D.) W. & M., | N. Y., N. J., Br. Am. |
| 1000. | Americanum Brid., | U. S., Br. Am. |
| | “ var. fluitans, | Mid. Sts. |
| 1001. | Ruthenicum (C.?) Wein., | Alaska. |
| 156. | ISOTHECIUM Brid. | |
| 1002. | stoloniferum Hook., | |
| | “ var. speculiferum Mitt., | Br. Am. |
| | “ “ acuticuspis Mitt., | Pac. Coast. |
| 1003. | *Breverianum Lx., | Pac. Coast. |
| 1004. | *aggregatum Mitt., | Pac. Coast. |
| 1005. | *apocladum Mitt., | Pac. Coast. |
| 1006. | *lentum Mitt., | Pac. Coast. Col. |
| 157. | ORTHOTHECIUM Sch. | |
| 1007. | rufescens (Dicks.), | Arc. regions. |
| 1008. | chryseum (Schwy.), | Br. Am., Col. |
| 1009. | rubellum (Mitt.), | Rky. Mts., Arc. regions. |
| 158. | HOMALOTHECIUM Sch. | |
| 1010. | subcapillatum (Hedw.), | East. U. S. |
| 1011. | pseudosericeum C. M., | Oregon. |

Family V. CAMPTOTHECIÆ.

159. CAMPTOTHECIUM Sch. .
1012. æneum Mitt., Br. Columb.

Recd. Sept 23, 1891

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| 1013. | <i>nitens</i> (Schreb.), | No. and Mid. Sts., Br. Am., Col. |
| 1014. | <i>pinnatifidum</i> S. & L., | Pac. Coast. |
| 1015. | <i>megaptilum</i> S. & L., | Oregon. |
| 1016. | <i>lutescens</i> Hedw., | Pac. Coast. |
| 1017. | <i>Nuttallii</i> Wils., | Pac. Coast. |
| | “ var. <i>stoloniferum</i> , | Pac. Coast. |
| 1018. | <i>arenarium</i> Lx., | Pac. Coast. |
| 1019. | <i>Nevadense</i> Lx., | Pac. Coast. |
| 100. | PTYCHODIUM Sch. | |
| 1020. | <i>radicosum</i> Mitt., | Br. Am. |
| 101. | BRACHYTHECIUM Sch. | |
| | <i>A. pedicel smooth.</i> | |
| 1021. | <i>lætum</i> Brid., | U. S., Br. Am. |
| 1022. | <i>albicans</i> Neek, | Br. Am., Columb. |
| 1023. | <i>acuminatum</i> (Beauv.), | N. E., Mid. and West. Sts., Br. Am. |
| | “ var. <i>rupiniculum</i> , | O., Rky. Mts. |
| | “ “ <i>setosum</i> (<i>L. setosa</i> Hedw.), | East. U. S. |
| 1024. | <i>salebrosum</i> (Hoffm.), | U. S., Br. Am. |
| | “ var. <i>Texanum</i> , | Texas. |
| 1025. | <i>acutum</i> Mitt., | N. E. and Mid. Sts., O., Can., Br. Columb. |
| 1026. | <i>Utahense</i> Jas., | Utah, Col. |
| 1027. | <i>Hillebrandi</i> Lx., | Cal. |
| 1028. | <i>collinum</i> Schl., | Br. Am., Col., Cal. |
| | <i>B. pedicel rough.</i> | |
| 1029. | <i>campestre</i> (Bruch), | N. Bruns'k to Mid. Sts. |
| 1030. | <i>rutabulum</i> (L.), | East. and No. U. S., Br. Am. |
| 1031. | <i>rivulare</i> (Bruch), | East. and No. U. S., Br. Am. |
| 1032. | <i>Starkii</i> (Brid.), | East. and No. U. S., Br. Am. |
| 1033. | <i>velutinum</i> (L.), | East. and No. U. S., Br. Am., Col. |
| 1034. | <i>plumosum</i> (Swartz), | East. and No. U. S., Br. Am., Col. |
| | “ var. <i>populeum</i> (<i>H. populeum</i> Hedw.), | N. E. to O., {
Sierra Nev. Mts. } |
| | “ “ <i>homomallum</i> , | N. C. |
| 1035. | <i>Novæ Angliæ</i> S. & L., | N. E. to Ill. and So'd. |
| | “ var. <i>rupestre</i> , | Mid. Sts. |
| 1036. | <i>reflexum</i> Br. Eu., | N. E. to Pa., Can. |
| | “ var. <i>micropus</i> Aust. (<i>B. micropus</i> Sch.), | Owen Sol. |
| 1037. | <i>Fendleri</i> Sull., | N. Mex., Col. |
| 1038. | <i>aspermum</i> Mitt., | Br. Am., Pac. |
| 1039. | <i>*declivum</i> Mitt., | Br. Am., Pac. |
| | <i>C. subgenus uncertain.</i> | |
| 1040. | <i>Bolanderi</i> Lx., | Cal. |
| 1041. | <i>biventosum</i> C. M., | La., Fla. |
| 1042. | <i>*œdipodium</i> Mitt., | Br. Am. |

B. polyphyllum, Ribb, *Exc. Spec.* in herb.

1043. *frigidum* C. M., Mex.
 1044. *Donnellii* Aust., Fla.
 1045. *flexiventrosus* C. M., Mex.
 1046. *cladoneuron* C. M., Mex.
 1047. *comatifolium* C. M., Mex.
 1048. *brunneo-alare* C. M., Mex.
162. *SCLEROPODIUM* Sch.
 1049. *illecebrum* Schwg., Cal.
 1050. *cæspitosum* Wils., Br. Am., Cal.
 1051. *Californicum* Lx., Cal.
163. *EURYNCHIUM* Sch.,
A. pedicel smooth.
 1052. *myosuroides* L., Pacific.
 1053. *Boscii* Schwg., N. E., Mid. and West. Sts.
 1054. *strigosum* (Hoffm.), N. E., Mid. and West. Sts., Br. Am., Pac.
 1055. **diversifolium* (Sch.), N. E., Mid. and West. Sts., Br. Am., Pac.
 1056. *Mexicanum* Besch., Mex.
B. pedicel rough.
 1057. *Sullivantii* (R. Spruce), N. E., Mid. and West. Sts., Can.
 1058. *hians* (Hedw.), N. E., Mid., West. and Gulf Sts., Br. Am.
 1059. *piliferum* (Schreb.), N. E. to Pa., and O., Br. Am.
 1060. *Stokesii* (Turn.), N. E., Br. Am., Pac. Coast.
 1061. *colophyllum* Sull., Cal.
 1062. *Oreganum* Sull., Br. Am., Pac. Coast.
 1063. **velutinoides* (Br.), Palisades.
 1064. *pumilum* Wils. (*Hyp. tenellum*), Wht. Mts., Heldbg. Mts., Del. {
 Water Gap. }
164. *RHYNCHOSTEGIUM* Sch.
 1065. *deplanatum* (Sch.), No. and East. U. S., Br. Am.
 1066. *serrulatum* (Hedw.), No. and East. U. S., Br. Am.
 1067. *rusciforme* (Weis), No. and East. U. S., Br. Am., Pac. Coast.
 1068. *subrusciforme* C. M., Mex.
 1069. *expallescens* C. M., Mex.
 1070. *leptomerocarpum* C. M., Mex.
 1071. *demissum* Wils., N. Mid. and West. Sts.
 " *var. Marylandicum*, N. E. and So. Sts., and Mts.
 " *" Carolinianum*, Ga., N. and S. Car.
 1072. *microcarpum* C. M., O., Mid. and So. Sts., Br. Am.
 " *var. anisocarpem* (H. adimistum), N. J. to Fla., O.
 1073. *recurvans* Schwg. (*R. delicatulum* Jas.), N. E., Mid. and West. {
 Sts., Br. Am., Mex. }
 1074. *cylindrocarpum* C. M., Br. Am., N. J. to O., and So. along {
 Alleghy Mts. to Ga. }

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| 1088. | <i>Alleghaniense</i> C. M., | East. and West. U. S., Br. Am. |
| 1089. | <i>Bigelowii</i> Sull., | Pac. Coast. |
| 1090. | * <i>alopecurum</i> (L.), | Pac. Coast. |
| 1091. | * <i>Neckeroides</i> Hook., | Pac. Coast. |

Family VI. HYPNEÆ.

- all of Hypnaceae checked as Hypnum
Following in herb. not in list:
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|--------|--------------------|
| Hypnum | recurvum, Sch. |
| " | rutabulum, L. |
| " | paludatum, Lill. |
| " | salebrosum, Hoff. |
| " | delicatulum, L. |
| " | Blandowii, N. & M. |

- chrysophyllum var. rupestre, Appalachian.
 " " stelloides, Appalachian.
 " " uncinifolium, Appalachian.
 1121. stellatum Schreb., N. E., Mid. and West. Sts., Br. Am.
 " var. protensum, Mid. Sts., Br. Am.
 1122. polygamum (Sch.), N. Y., N. J.
C. Harpidium Sull.
 1123. aduncum Hedw., East., Mid. and West. Sts., Pac. Coast.
 " var. Kneiffi, Appalachian, Br. Am., Rky. Mts.
 " polycarpum, Col.
 " gracilescens, U. S.
 " giganteum, N. E., N. J., Minn.
 " tenue, Col.
 1124. vernicosum Lindbg., N. Y., N. J., Br. Am.
 1125. exannulatum Gumb., N. Bruns'k, Can., Mid. Sts., Rky. Mts.
 1126. fluitans (L.), East., Mid. and West. Sts., Col., Br. Am.
 1127. uncinatum Hedw., East., Mid. and West. Sts., Pac. Coast, Br. }
 Am., G'land. }
 1128. Jamesii Aust., Wht. Mts.
 1129. hamifolium Sch., Conn.
 1130. Sendtneri Sch., N. Y., Can., O.
 1131. subpungens C. M., Mex.
D. Cratoneuron Sull.
 1132. filicinum L., N. E., Mid. and West. Sts., Br. Am.
 1133. commutatum Hedw., N. Y., Can., Col.
 " var. falcatum, Rky. Mts.
E. Rhytidium Sull.
 1134. rugosum Ehr., N. E., Mid. and West. Sts., Br. Am.
 1135. robustum Hook., Pac. Coast.
F. Calliergon.
 1136. cordifolium Hedw., U. S., Br. Am., G'land.
 1137. giganteum Sch., N. Y., O., Wis., Col., Br. Am., Pac. Coast.
 1138. cuspidatum L., U. S., Br. Am.
 1139. Schreberi Willd., U. S., Br. Am., G'land.
 1140. stramineum Dicks., Throughout Br. Am., and in Mts. So. G'land.
 1141. sarmentosum Wahl., N. E., G'land.
 1142. trifarium W. & M., Br. Am., O.
 1143. Richardsoni Mitt., Br. Am., G'land.
G. Hypnum.
 1144. molluscum Hedw., N. E., Mid. and West. Sts., Br. Am., Col.
 1145. Vaucheri Lx., Br. Am.
 1146. cupressiforme L., Appalachian, Col.
 " var. filiforme, Col.
 " resupinatum, N. J.

1147. *imponens* Hedw., N. E., Mid. and West. Sts., Br. Am.
 1148. *subimponens* Lx., (*S. plunifer* Mitt.), Pac. Coast.
 1149. *pallescens* (Hedw.) Br. (*H. reptile* Mx.), U. S., Br. Am.
 " *var. protruberans* (Brid.) Lindbg. (*R. Jamesii* Sull. }
 Icon.), (*H. hamulosum* S. & L.), (*H. pallescens* Musci }
 Appalach.), (*H. depressulum* C. M.), U. S., Br. Am. }
 " " *viride* Aust., N. E., Pa., Can.
 1150. *fertile* Sendt., No. Sts., Br. Am., Col., Br. Columb.
 1151. *curvifolium* Hedw., N. E., Mid. and West. Sts., Br. Am.
 " *var. australe* Aust., N. J., So. Sts.
 1152. *Haldanianum* Grev., N. E., Mid. and West. Sts., Br. Am.
 1153. *nemorosum* Koch, Pa., Va., No. and So. Car.
 1154. *pratense* Koch., N. E., Mid. and West. Sts., Br. Am.
 1155. *circinale* Hook., Br. Am., Pac. Coast.
 1156. **circulare* Hook., Arc. regions.
 1157. **complexum* Mitt., Br. Am.
 1158. *Wrightii* Sull., Tex., N. Mex., Fla.
 1159. *plicatile* Mitt. (*H. Watsoni* L. & J.), Col., Utah, Br. Am., Arc. reg.
 H. Scorpidium Br. Eu.
 1160. *scorpioides* Dill., O., Br. Am.
 I. Ptilium Sull. (*Ctenium* Br. Eu.).
 1161. *Crista-castrensis* L., No. and East. U. S., Br. Am.
 J. Limnobium Br. Eu.
 1162. *obtusifolium* W. & M., Br. Am.
 1163. *palustre* L., N. J. to Can., Col.
 1164. *arcticum* Somf., Br. Am., lky. Mts., Pac. Coast.
 1165. *molle* Dicks., N. Y., N. J., N. Car.; Col., Br. Am.
 1166. *ochraceum* Br. Eu., No. and East. U. S., Col., Br. Am.
 1167. *alpestre* Swartz, Br. Am.
 1168. *eugyrium* Sch., N. E., N. Y., Pa., Tenn., Col., Br. Am.
 1169. *montanum* Wils., Wht. Mts.
 1170. *Closteri* Aust., N. Y., N. J.
 K. subgenus uncertain.
 1171. *Reichenbachii* Lorentz., Mex.
 1172. *occidentale* S. & L., Oregon.
 1173. *homalostegium* C. M., Ala.
 1174. *thelistegium* C. M., Fla., Mex.
 1175. *aluminicolum* C. M., Mex.
 1176. *affine* Hook., Mex.
 1177. *Mohrianum* C. M., Mex.
 1178. *LeJolisii* Besch., Mex.
 1179. *pendulinum* Hpe., Mex.
 1180. *Salleianum* Besch., Mex.
 1181. *duriusculum* Sch., Mex.
 1182. *planum* Brid., Fla.

1183.	<i>Caloosiensis Aust.</i> ,	Fla.
1184.	<i>divaricatissimum C. M.</i> ,	Mex.
1185.	<i>Miradericum C. M.</i> ,	Mex.
1186.	<i>Cordovense C. M.</i> ,	Mex.
1187.	<i>cæspitosum Lev.</i> ,	Mex.
1188.	<i>Coloradense Aust.</i> ,	Col.
1189.	<i>radiculosum C. M.</i> ,	Mex.

169. *HYLOCOMIUM Br. Eu., (Pleurozium Sull.)*

1190.	<i>splendens Hedw.</i> ,	U. S., Br. Am.
1191.	<i>brevirostre Ehr.</i> ,	U. S., Br. Am.
1192.	<i>triquetrum (L.)</i> ,	U. S., Br. Am.
1193.	<i>squarrosus L.</i> ,	Me., N. H., N. Y., Pa.
1194.	<i>Oakesii Sull.</i> ,	Through't Br. Am., Mts. N. E., N. Y., S. Car.
1195.	<i>umbratum Ehr.</i> ,	Br. Am., Mts. N. E., N. Y., Pa.
1196.	<i>loreum Dill.</i> ,	Pac. Coast.
1197.	<i>Ehrenbergianum C. M.</i> ,	Mex.
1198.	<i>Flemingii Aust.</i> ,	Vanc'r I.
1199.	<i>Alaskanum S. & L.</i> ,	Alaska.

Family VII. HYOPTERIGIACEÆ.

170.	<i>HELICOPHYLLUM Brid.</i>	
1200.	<i>torquatum Brid.</i> ,	Mex.
171.	<i>HYOPTERIGIUM Brid.</i>	
1201.	<i>tamarisci Brid.</i>	
1202.	<i>pseudotamariscinum C. M.</i> ,	Mex.
1203.	<i>incrassato-limbatum C. M.</i> ,	Mex.
172.	<i>RHACOPILUM Brid.</i>	
1204.	<i>tomentosum Brid.</i> ,	Mex., La.
	“ var. <i>gracile</i> ,	Mex.
1205.	<i>angustatum Sch.</i> ,	Mex.

BRYINÆ ANOMALÆ.

Order I. HOLOCARPÆ.

Tribe I. ARCHIDIACEÆ.

173.	<i>ARCHIDIUM Brid.</i>	
1206.	<i>Ohioense Sch.</i> ,	N. J. to O., S. Car., Ala., W. Fla.
1207.	<i>tenerrimum Mitt.</i> ,	Fla.
1208.	<i>Donnellii Aust.</i> ,	Md., Va., S. Car.

- | | | |
|-------|--|-----------------|
| 1209. | Lescurii Aust. (<i>A. longifolium</i> L. & J.), | Fla., Ala., La. |
| 1210. | Hallii Aust., | Tex. |
| 1211. | Ravenellii Aust., | S. Car., Fla. |

Order II. SCHIZOCARPÆ.

Tribe. ANDRÆACEÆ.

- ★ 174. *ANDRÆA* Ehr.
- | | | |
|-------|---------------------|-----------------------|
| 1212. | turgescens Sch., | Mex. |
| 1213. | petrophila Ehr., | Alleg'y Mts., Br. Am. |
| 1214. | rupestris Turn., | Alleg'y Mts. |
| 1215. | crassinervia Bruch, | Wht. Mts. |

Order III. STEGOCARPÆ

Tribe. SPHAGNACEÆ.

175. *SPHAGNUM* Dill.
- | | | |
|-------|---|--|
| 1216. | Portoricense Hpe., | So. N. J. to Fla. |
| 1217. | Austini Sull., | Mass., N. J., Newfoundland. |
| 1218. | papillosum Lindbg., | N. J. to Can. |
| 1219. | cymbifolium Ehr., | Appalachian, Br. Am., Pac. Coast. |
| | “ var. pycnocladum, | Appalachian. |
| | “ “ squarrosulum, | Appalachian. |
| | “ “ condensatum, | Appalachian. |
| 1220. | rigidum (Nees.), | Pa. to Ala., Br. Am., Pac. Coast. |
| | “ var. compactum, | East. U. S., Cal. |
| | “ “ humile, | N. J. to Fla., Ala. |
| | “ “ laxum Aust., | Pa. |
| 1221. | molle Sull. (<i>S. Mulleri</i> Sch.), | N. J. to Fla. and Ala. |
| 1222. | tenellum Ehr. (<i>S. molluscum</i> Bruch), | N. Y., N. J., N. Bruns'k. |
| 1223. | acutifolium Ehr., | Appalachian, Br. Am., Pac. Coast, G'land. |
| | “ var. tenellum, | Col. |
| | “ “ confertum, | N. J., Ala. |
| | “ “ purpureum, | Appalachian. |
| | “ “ intermedium, | N. J., Can., N. Bruns'k. |
| | “ “ rubellum, | N. J., Can., N. Bruns'k. |
| | “ “ fuscum, | N. E., N. J., Can. |
| | “ “ robustum, | N. J. |
| 1224. | fimbriatum Wils., | Br. Am. |
| 1225. | strictum Lindbg. (<i>S. Girgensohni</i> Rus.), | N. J., Pa., O., Can. |
| 1226. | teres Angstr., | N. J., Br. Columb. |
| 1227. | squarrosulum Pers., | No. and Mid. Sts., and West'd. Ala., Br. { |
| | “ var. squarrosulum Lx., | Am., G'land. { |
| | | Cal. |

x *A. obovata* Phed. Eu. spec. in herb.

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|-------|---|--------------------------------|---------------------|
| 1228. | <i>Pylaesii</i> <i>Brid.</i> , | N. H., N. Y., N. J., | Newfound'd, S. Car. |
| | “ var. <i>sedoides</i> , | N. J., | Newfound'd, S. Car. |
| 1229. | <i>cyclophyllum</i> <i>S. & L.</i> , | N. Y., N. J., La., | Ala. |
| 1230. | <i>laricinum</i> <i>Spruce</i> , (<i>S. neglectum</i> <i>Angs.</i>), | N. J., | O. |
| 1231. | <i>subsecundum</i> <i>N. & H.</i> , | Atl. Sts., O., Br. Am., | Cal. |
| | “ var. <i>serratum</i> (<i>S. serratum</i> <i>Aust.</i>), | | Fla. |
| | “ “ <i>subsimplex</i> <i>Aust.</i> , | | Ala. |
| | “ “ <i>longifolium</i> , | | Cal. |
| | “ “ <i>Lescurii</i> , | N. J., O., So. Sts. | |
| | “ “ <i>obesum</i> , | | N. J. |
| 1232. | <i>Wulfianum</i> <i>Girgh.</i> , | | N. Y., Can. |
| 1233. | <i>cuspidatum</i> <i>Ehr.</i> , | Can., N. E. Sts. to La. | |
| | “ var. <i>laxifolium</i> , | | N. J. |
| | “ “ <i>Torreyanum</i> , | | N. J., Pa. |
| | “ “ <i>plumosum</i> , | Can. and N. E. to La. | |
| | “ “ <i>parvum</i> , | N. J., N. Brnsw'k, | Can. |
| | “ “ <i>intermedium</i> (<i>Hoffm.</i>) (<i>recurvans</i> <i>Bt.</i>), | N. E. } | |
| | “ “ <i>Rauei</i> <i>Aust.</i> , | to La., Can., Mich., G'land. } | |
| | | | Pa. |
| 1234. | <i>Mendocinum</i> <i>S. & L.</i> , | | Cal. |
| 1235. | <i>Lindbergii</i> <i>Sch.</i> , | N. Y., Br. Am., | G'land. |
| 1236. | <i>macrophyllum</i> <i>Bern.</i> , | So. N. J. to Fla., Ala., | Miss. |
| | “ var. <i>Floridanum</i> <i>Aust.</i> , | | Fla. |
| 1237. | <i>Mexicanum</i> <i>Mitt.</i> , | | Mex. |

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